

## SERVICE MANUAL

Model Series:

Product Type: DVD PLAYER  
Chassis: DVC  
Manual Series: VR161  
Manual Part #: 923-03437  
Model Line: C  
Product Year: 2000

DVC2200  
DVC2250



### CONTENTS

Customer Controls .....	1
Exploded Views .....	2
Circuit Diagrams .....	3
P.C.Board Layout .....	4
Parts .....	5

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# PRODUCT SAFETY SERVICING GUIDELINES FOR AUDIO-VIDEO PRODUCTS

## IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-visual service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

**CAUTION:** Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

## GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.



The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

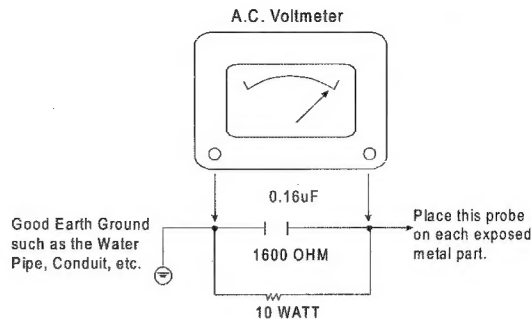
**CAUTION:** FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

## SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

### FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After re-assembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. **DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST.** Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



## X-RADIATION

1. Be sure procedures and instructions to all service personnel cover the subject of x-radiation. The only potential source of x-rays in current TV receivers is the picture tube. However, this tube does not emit x-rays when the HV is at the factory-specified level. The proper value is given in the applicable schematic. Operation at higher voltages may cause a failure of the picture tube or high-voltage supply and, under certain circumstances may produce radiation in excess of desirable levels.
2. Only factory-specified CRT anode connectors must be used.
3. It is essential that the service personnel have available an accurate and reliable high-voltage meter.
4. When the high-voltage circuitry is operating properly, there is no possibility of an x-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter, to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. When troubleshooting and making test measurements in a product with a problem of excessively high voltage, avoid being unnecessarily close to the picture tube and the high voltage power supply. Do not operate the product longer than necessary to locate the cause of excessive voltage.
6. Refer to HV, B+, and shutdown adjustment procedures described in the appropriate schematics and diagrams (where used).

## IMPLOSION

1. All direct view picture tubes are equipped with an integral implosion protection system; take care to avoid damage during installation.
2. Use only the recommended factory replacement tubes.

## TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using a cart or stand that has not been listed by Underwriters Laboratories, Inc. for use with its specific model of television receiver or generically approved for use with TVs of the same or larger screen size.
8. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

## **CONTENTS**

**SECTION 1 . . . .SUMMARY**

**SECTION 2 . . . .CABINET & MAIN CHASSIS**

**SECTION 3 . . . .ELECTRICAL**

**SECTION 4 . . . .MECHANISM**

# SECTION 1

## SUMMARY

### CONTENTS

PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS .....	F/C I
SERVICING PRECAUTIONS .....	1-4
•General Servicing Precautions	
•Insulation Checking Prodedure	
•Electrostatically Sensitive Devices	
SPECIFICATIONS .....	1-5
LOCATION OF CUSTOMER CONTROLS .....	1-6

# SERVICING PRECAUTIONS

**CAUTION :** Before servicing the DVD covered by this service data and its supplements and ADDENDUMS, read and follow the **SAFETY PRECAUTIONS**. **NOTE :** if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publication, always follow the safety precautions.

*Remember Safety First:*

## General Servicing Precautions

1. Always unplug the DVD AC power cord from the AC power source before:
  - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
  - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
  - (3) Connecting a test substitute in parallel with an electrolytic capacitor.

**Caution :** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this DVD or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

## Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.

**Note 1 :** Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

## Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a GROUNDED-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**Caution :** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

# SPECIFICATIONS

## DVD VIDEO PLAYER

Power supply	120V, 60Hz
Power consumption	16W
Mass	3.2kg(7.1lbs)
External dimensions	430 x 88 x 215 (W x H x D)
Signal system	NTSC
Laser	Semiconductor laser, wavelength 650nm
Frequency range (digital audio)	4Hz to 20kHz
Signal-to-noise ratio (digital audio)	More than 100dB (EIAJ)
Audio dynamic range (digital audio)	More than 95dB (EIAJ)
Harmonic distortion(digital audio)	0.008%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK)) (EIAJ)
Operations	Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

## OUTPUTS

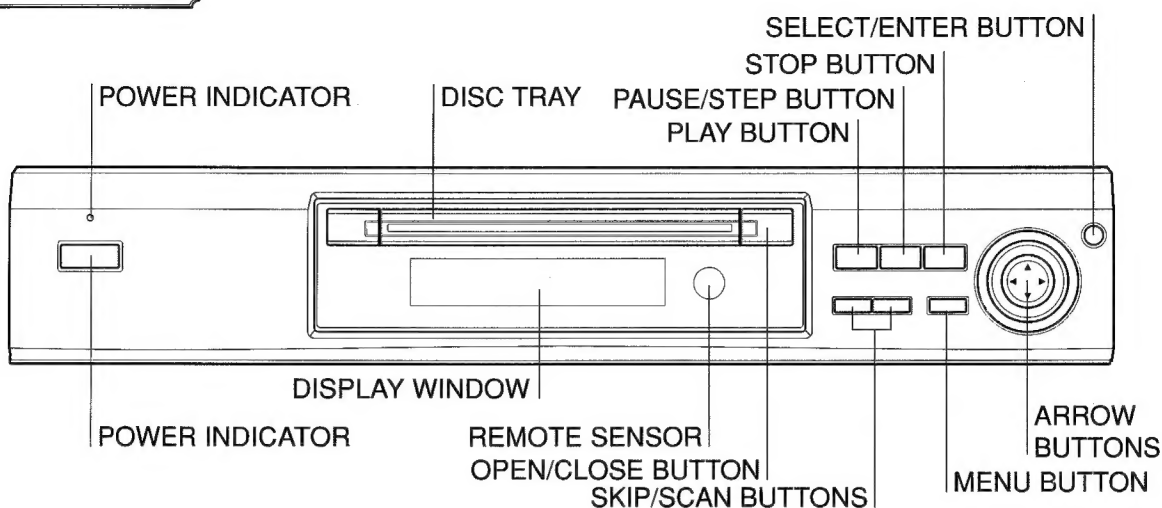
Video outputs	1.0V(p-p), 75Ω, negative sync., RCA jack x 1
S video outputs	(Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.286V(p-p), 75Ω
Component video output	(Y)1.0V(p-p), 75Ω,negative sync., RCA jack x 1 (Pb)/(Pr) 0.7V(p-p), 75Ω
Audio output(digital audio)	0.5V(p-p), 75Ω, RCA jack X 1
Audio output(optical audio)	Optical connector x 1
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 1

\*Designs and specifications are subject to change without notice.

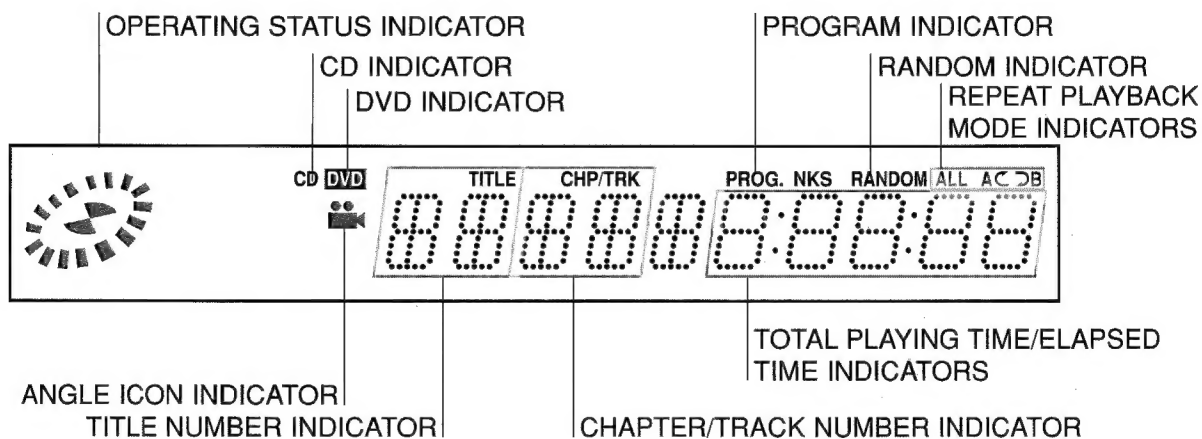
\*Weight and dimensions shown are approximate.

# LOCATION OF CUSTOMER CONTROLS

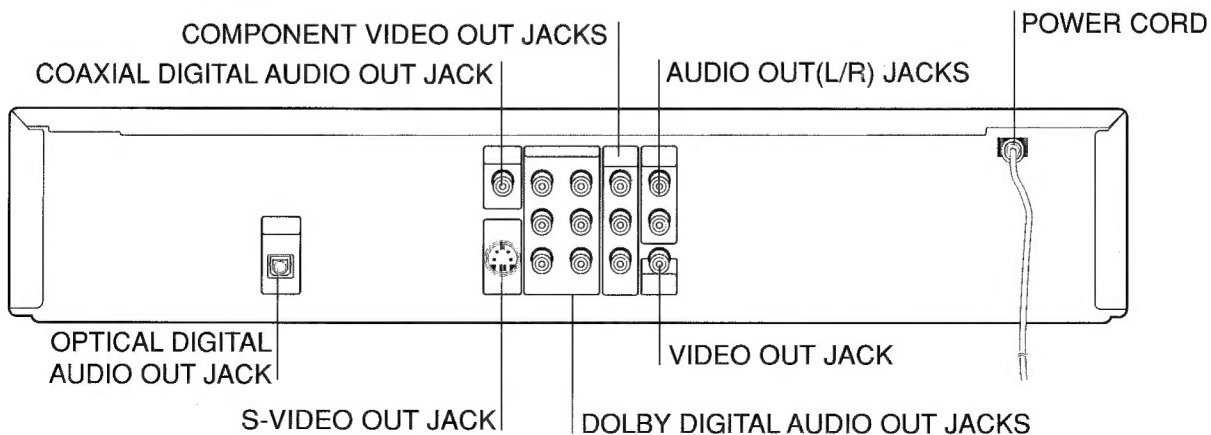
## FRONT PANEL



## DISPLAY WINDOW

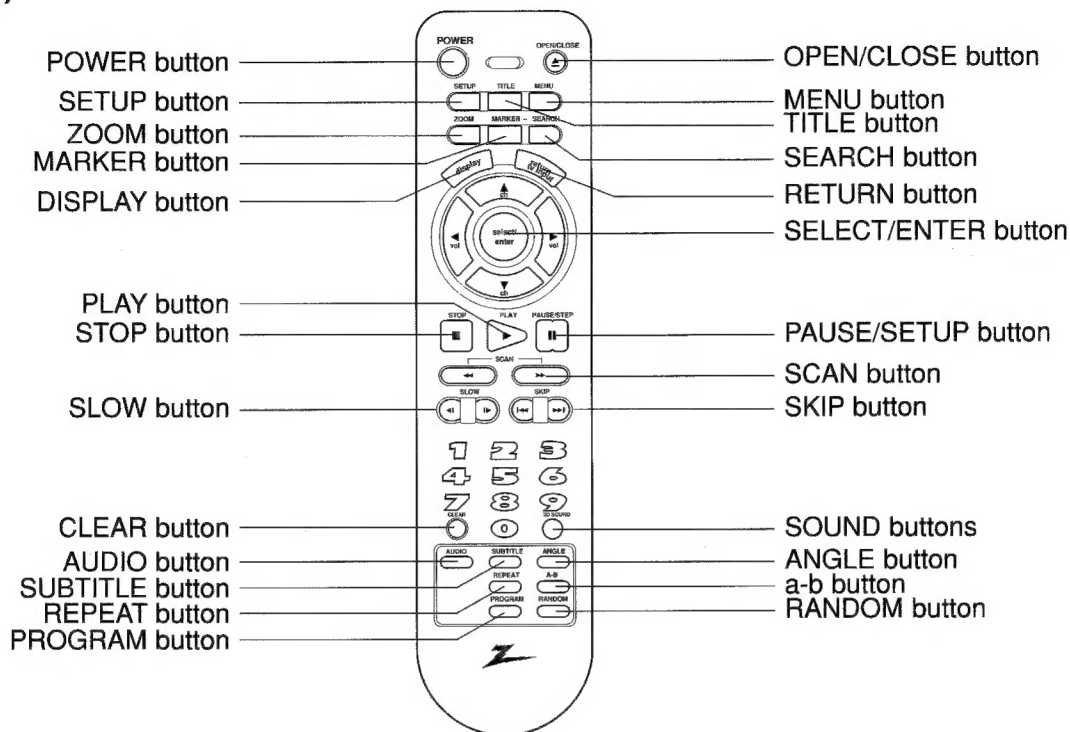


## REAR PANEL

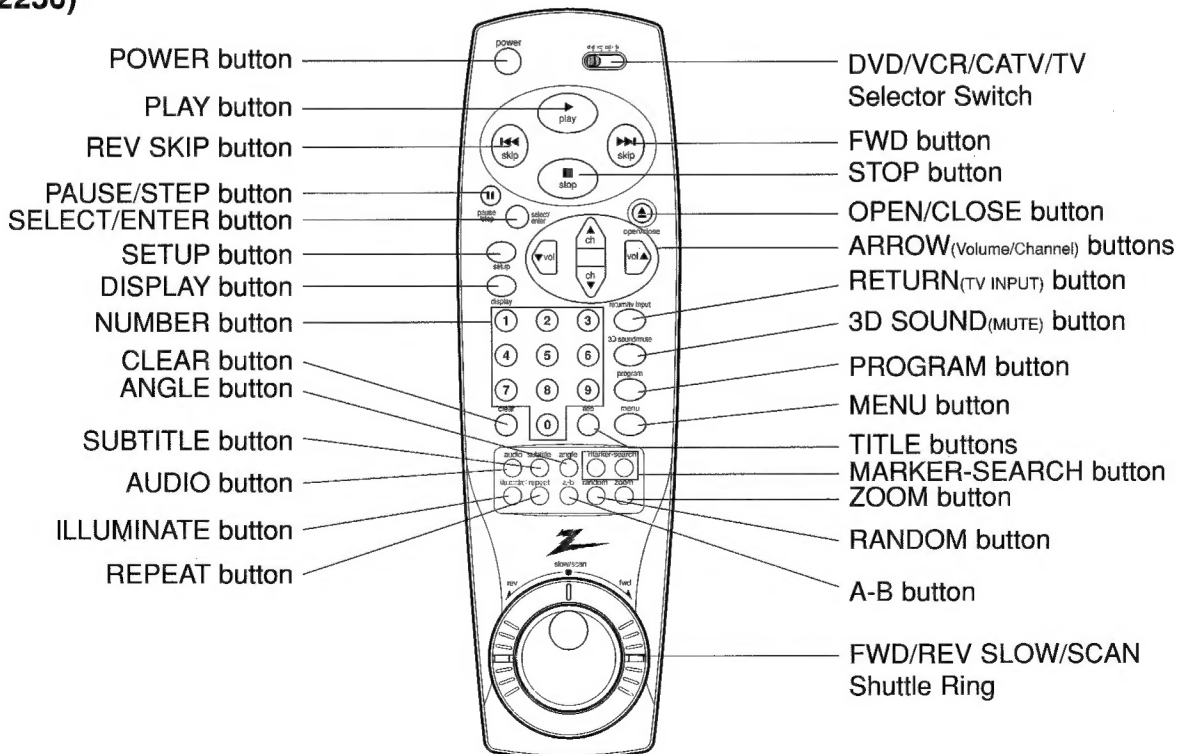


## REMOTE CONTROL

(DVC2200)



(DVC2250)





# **SECTION 2**

## **CABINET & MAIN CHASSIS**

### **CONTENTS**

<b>1. DISASSEMBLY.....</b>	<b>2-2</b>
<b>CABINET DISASSEMBLY .....</b>	<b>2-2</b>
<b>CIRCUIT BOARD DISASSEMBLY .....</b>	<b>2-3</b>
<b>2. EXPLODED VIEWS .....</b>	<b>2-4</b>
<b>1. Cabinet and Main Frame Section .....</b>	<b>2-4</b>
<b>2. Packing Accessory Section .....</b>	<b>2-6</b>
<b>3. Remote Control Section .....</b>	<b>2-6</b>

# DISASSEMBLY

## CAUTION BEFORE STARTING SERVICING

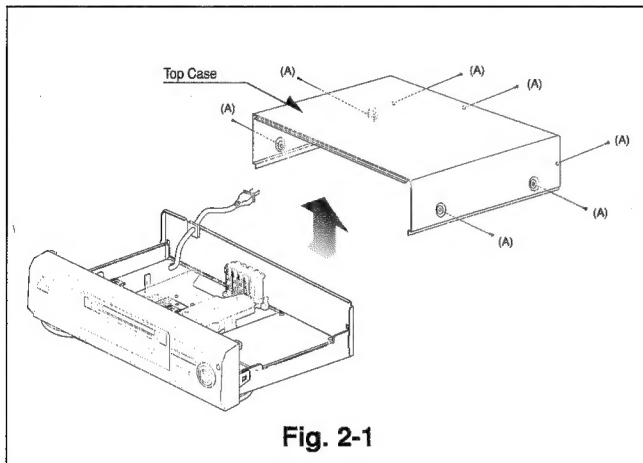
Electronic parts are susceptible to static electricity and may easily be damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded parts and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

## CABINET DISASSEMBLY

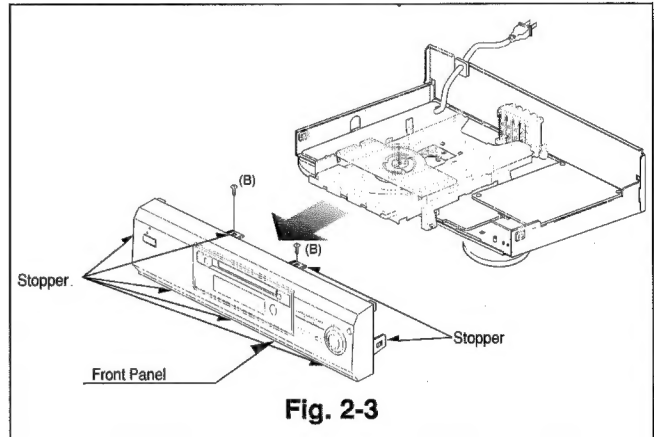
### 1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow



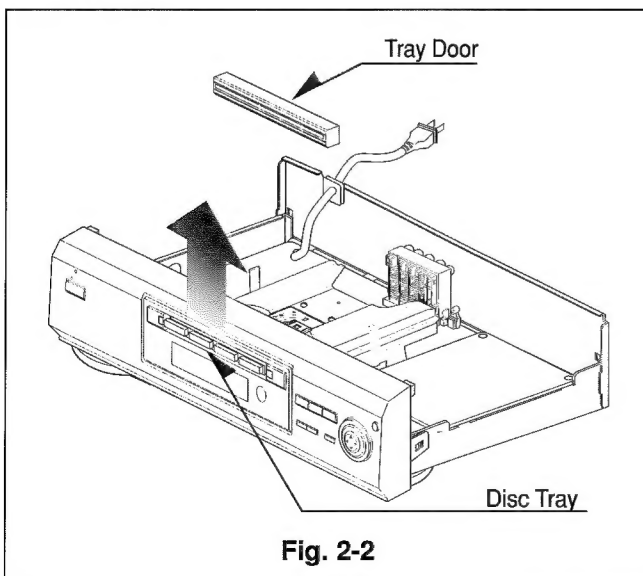
### 3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Release 2 screws (B).
4. Pull the front panel toward you while pressing 7 stoppers to disengage, and remove the front panel. (See Fig. 2-3)



### 2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.

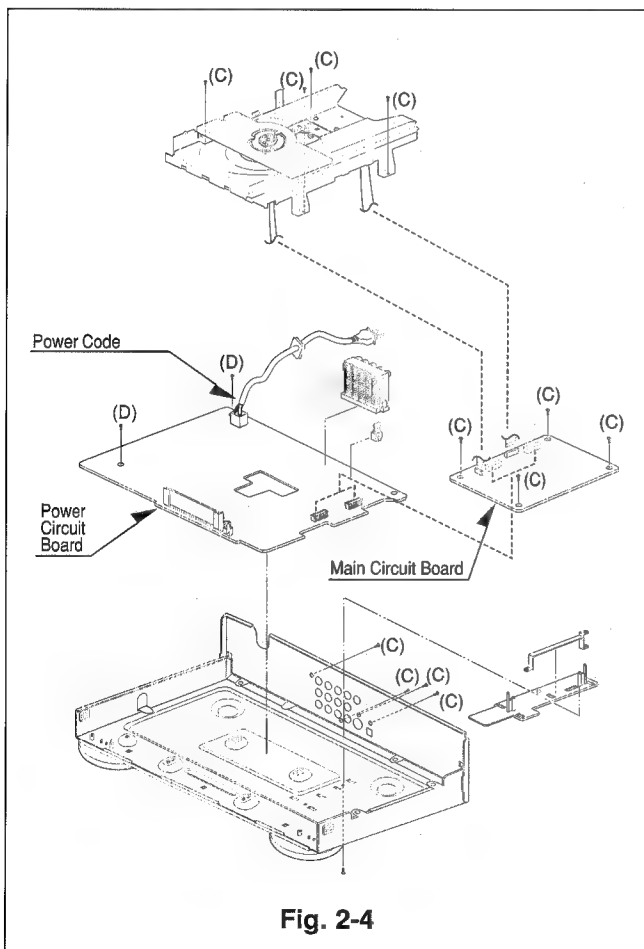


## CIRCUIT BOARD DISASSEMBLY

**Note:** Before removing the main circuit board, be sure to shortcircuit the laserdiode output land.  
After replacing the main circuit board, open the land after inserting the flexible connector.  
(Refer to Mechanism Disassembly)

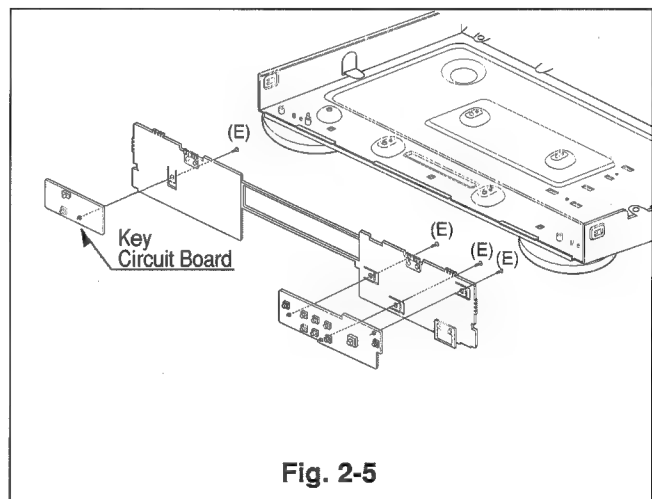
### 1. Disassembling of Main Circuit Board and Interface Board

1. Remove the top case.(See Fig. 2-1)
2. Remove 12 screw (C).
3. Remove the deck from Interface Board.
4. Remove Main Circuit Board from Interface Board.
5. Remove 2 screw (D).
6. Remove Interface Board from the chassis.



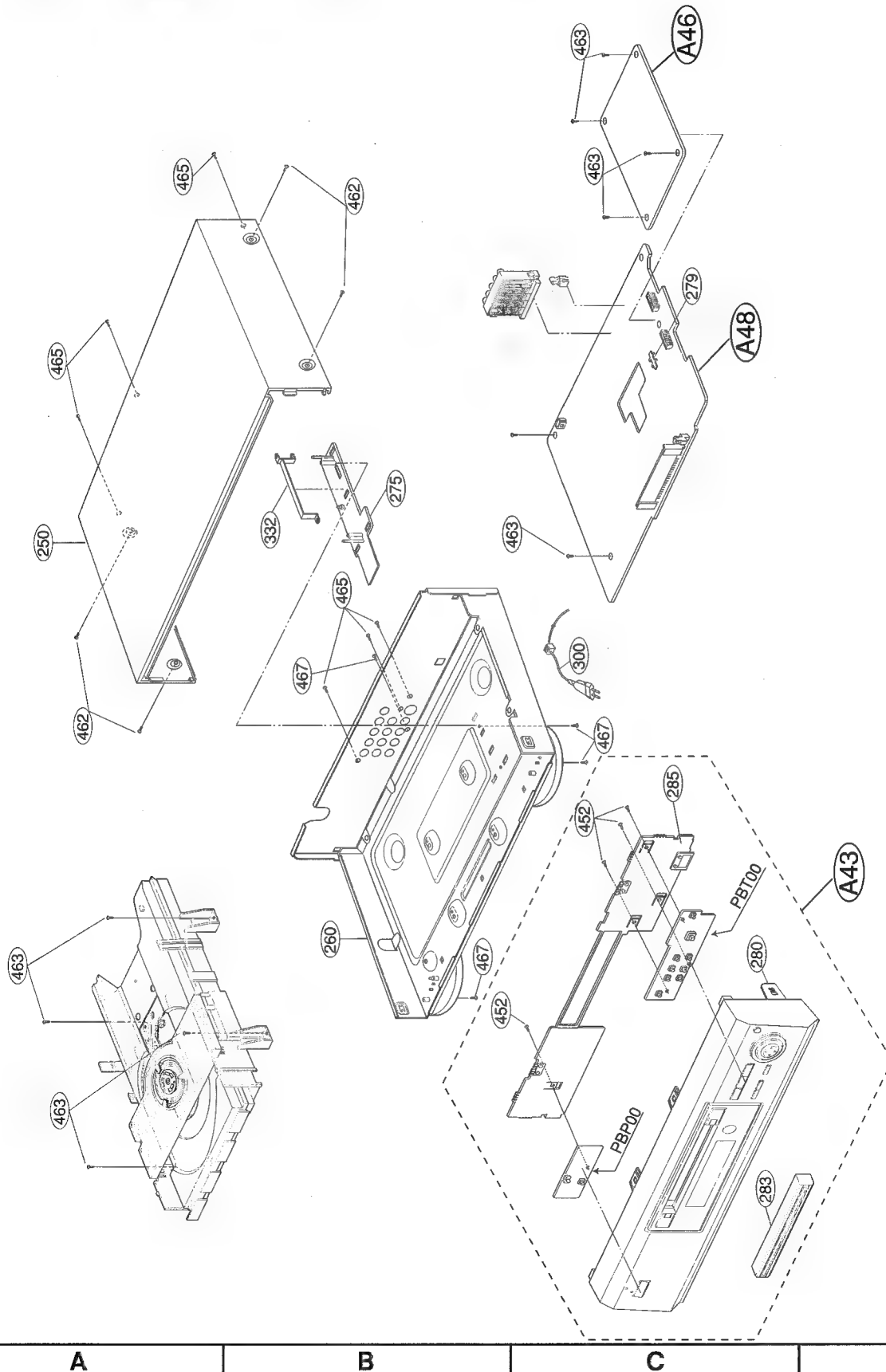
### 2. Digitron and Key Circuit Board

1. Remove the front panel.(See Fig. 2-3)
2. Release 4 screws (E), and remove the digitron circuit board.

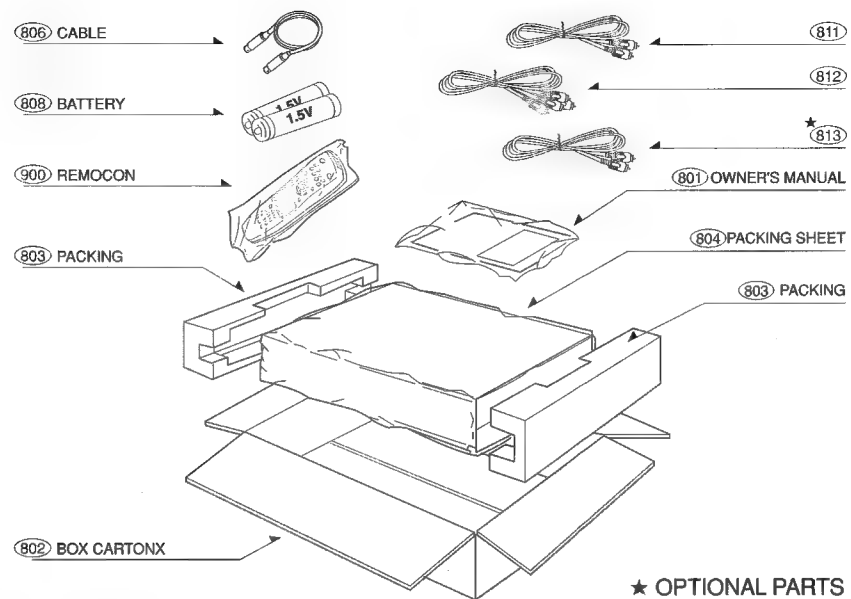


# EXPLODED VIEWS

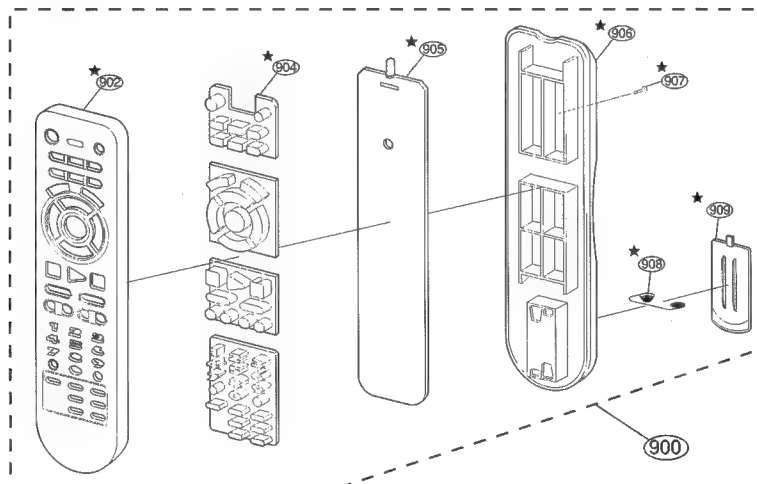
## 1. Cabinet and Main Frame Section



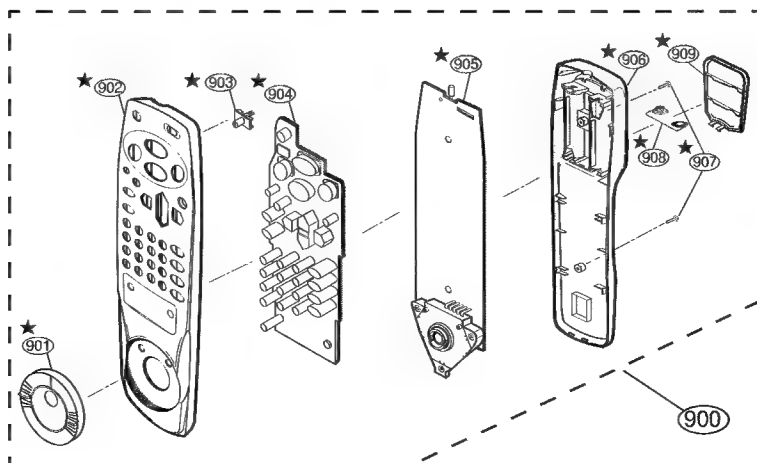
## 2.Packing Accessory Section



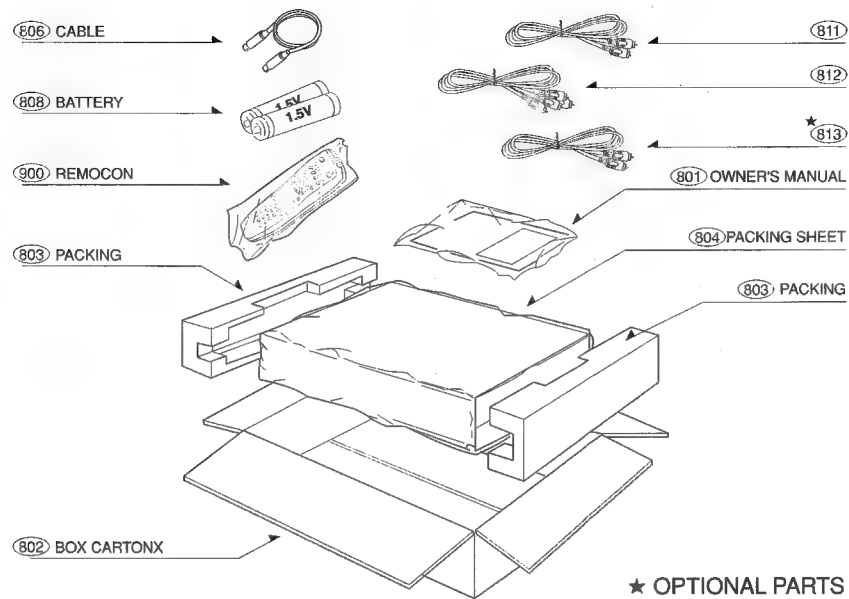
## 3.Remote Control Section (DVC2200)



## (DVC2250)

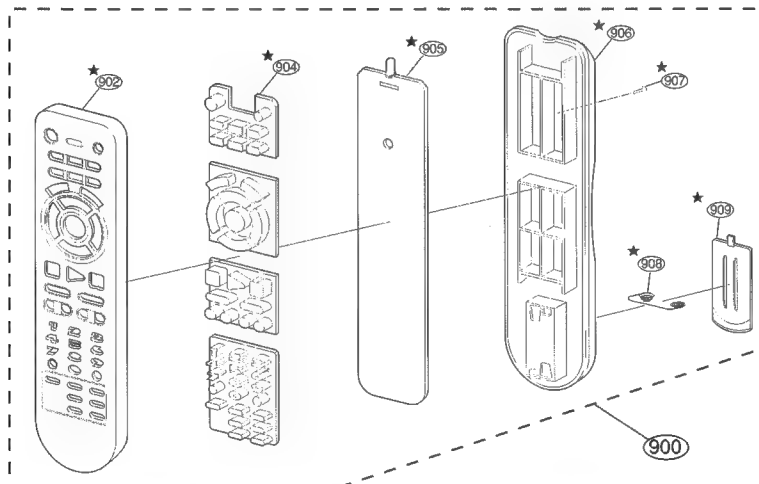


## 2. Packing Accessory Section

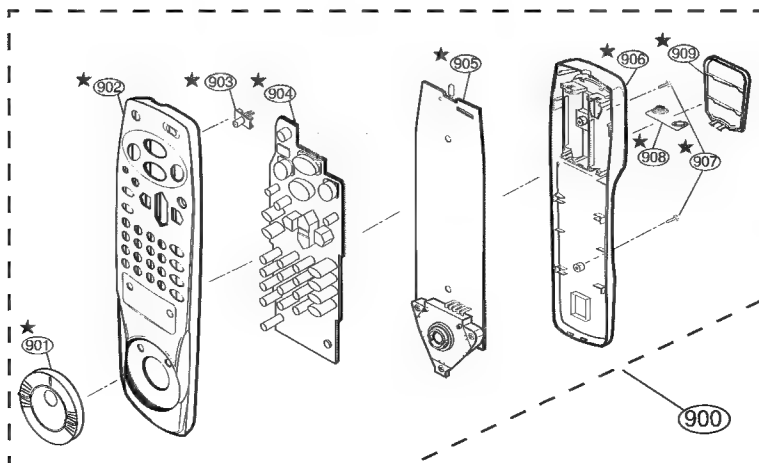


## 3. Remote Control Section

(DVC2200)



(DVC2250)



# SECTION 3

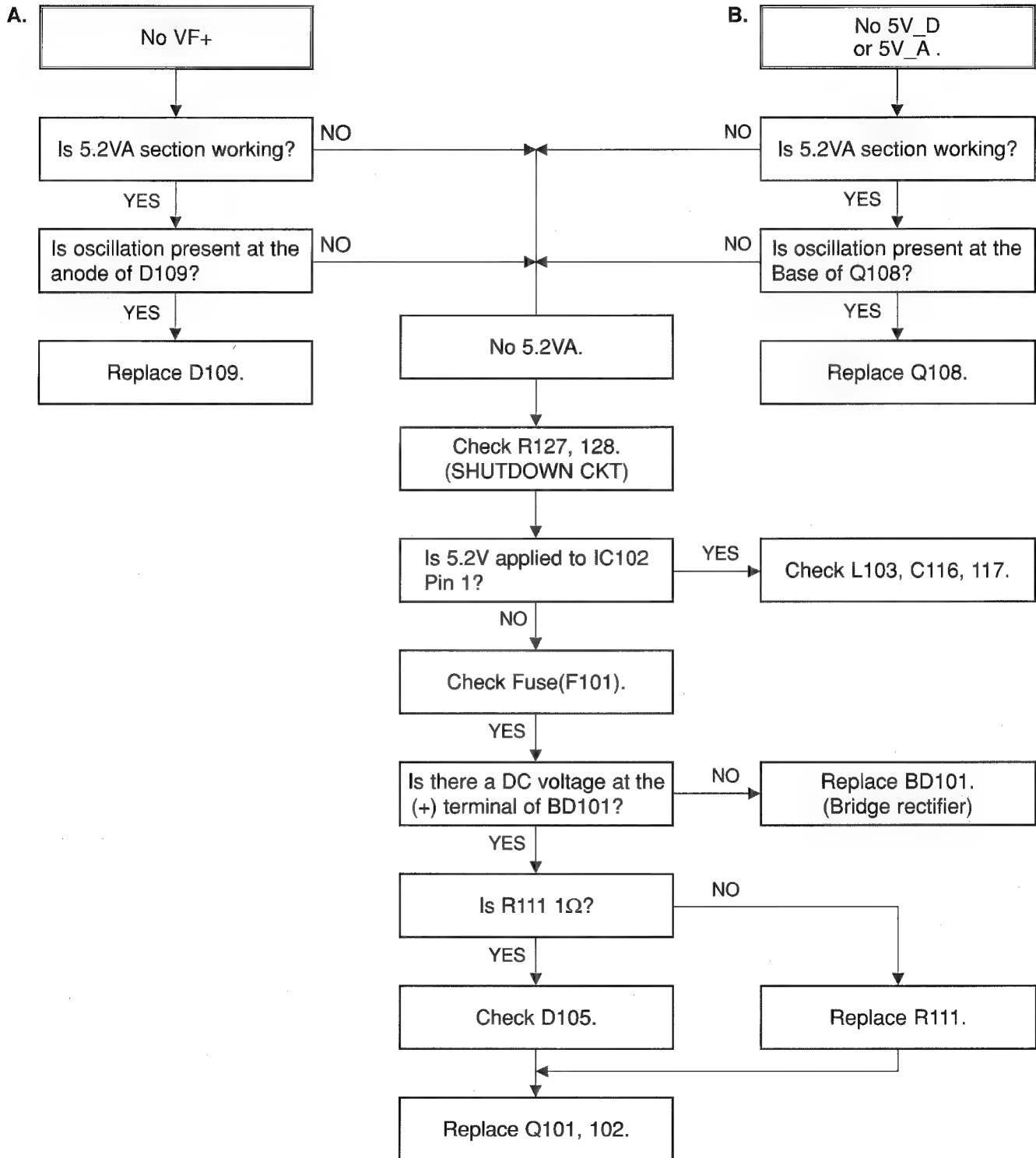
## ELECTRICAL

### CONTENTS

<b>ELECTRICAL TROUBLESHOOTING GUIDE.....</b>	<b>3-2</b>
1. Power(SMPS) Circuit.....	3-2
2. $\mu$ -com Circuit.....	3-3
3. MPEG Circuit.....	3-6
4. Front Circuit(Digitron & Key) .....	3-7
5. RF/Servo Circuit .....	3-8
<b>BLOCK DIAGRAMS .....</b>	<b>3-12</b>
1. Overall Block Diagram .....	3-12
2. Power (SMPS) Block Diagram.....	3-13
3. RF/CD DSP/DVD DSP/DVD servo Block Diagram .....	3-14
4. Audio Block Diagram .....	3-15
5. MPEG Block Diagram.....	3-16
6. $\mu$ -COM Block Diagram.....	3-17
<b>CIRCUIT DIAGRAMS .....</b>	<b>3-18</b>
1. Power (SMPS) Circuit Diagram .....	3-18
2. DVD DSP Circuit Diagram .....	3-20
3. Drive & RF Circuit Diagram .....	3-22
4. MPEG Circuit Diagram .....	3-24
• WAVEFORMS .....	3-26
5. Audio DM & 5.1CH Circuit Diagram .....	3-28
6. $\mu$ -COM/Expander.....	3-30
7. DIGITRON & Key Circuit Diagram .....	3-32
8. Jack Circuit Diagram .....	3-34
<b>PRINTED CIRCUIT DIAGRAMS .....</b>	<b>3-36</b>
1. MAIN P.C.BOARD .....	3-36
2. POWER,A/V,FRONT P.C.BOARD .....	3-38
3. KEY P.C.BOARD.....	3-40
4. POWER LED P.C.BOARD .....	3-41

# ELECTRICAL TROUBLESHOOTING GUIDE

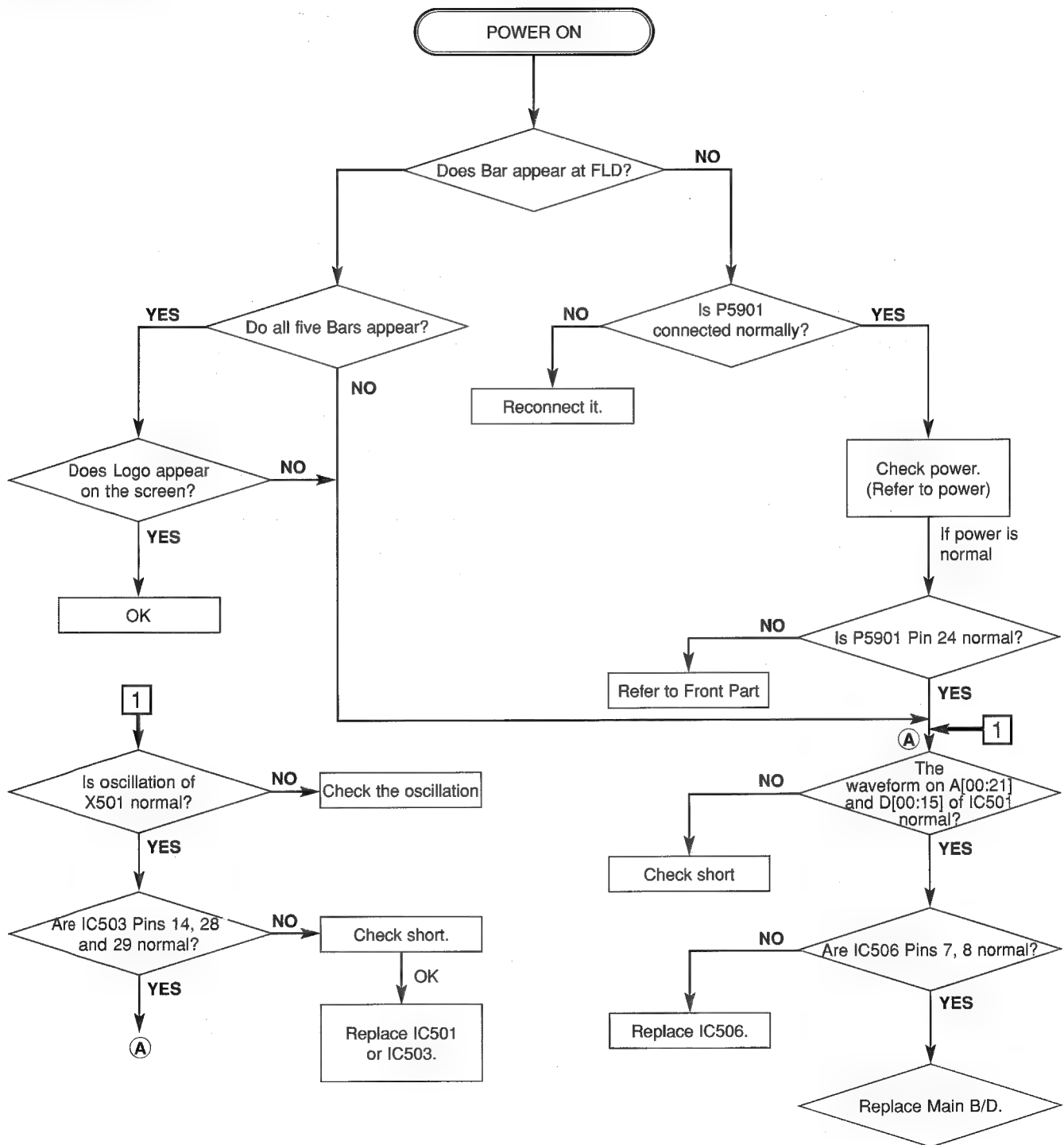
## 1. Power(SMPS) Circuit



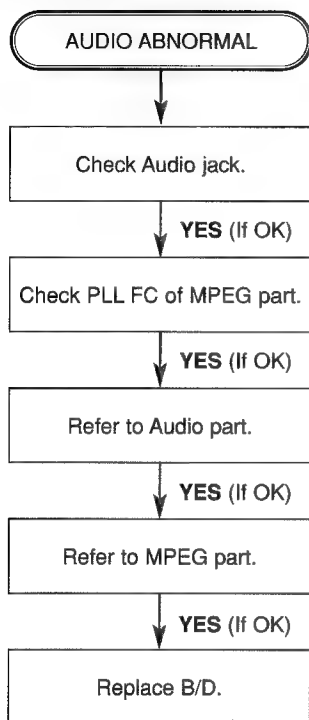


## 2. $\mu$ -COM Circuit

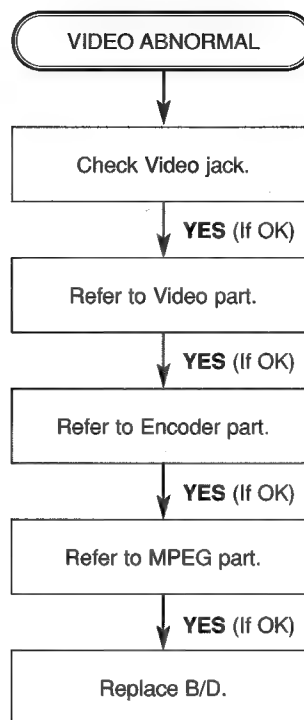
### A. No Power



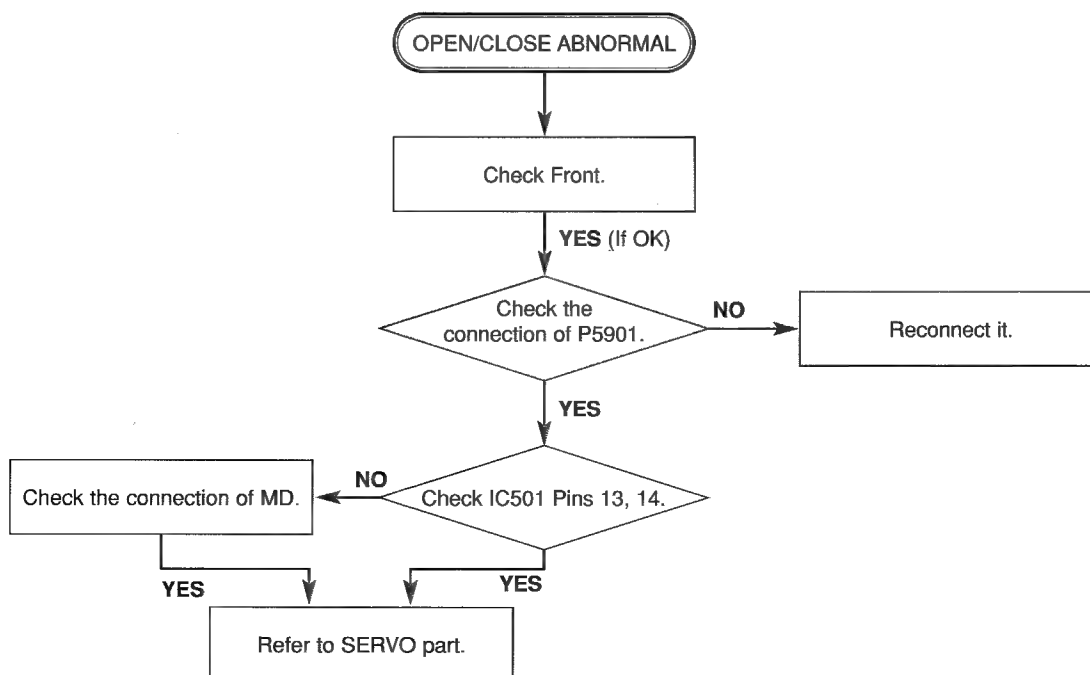
## B. Audio abnormal



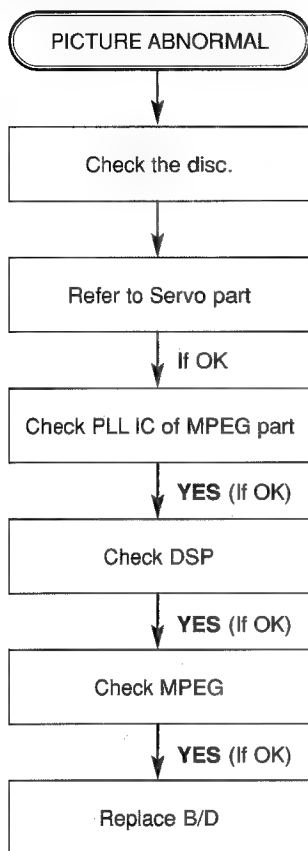
## C. Video abnormal



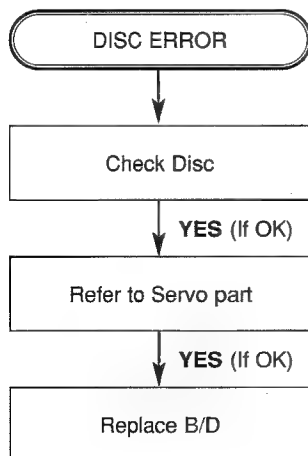
## D. Open/Close abnormal



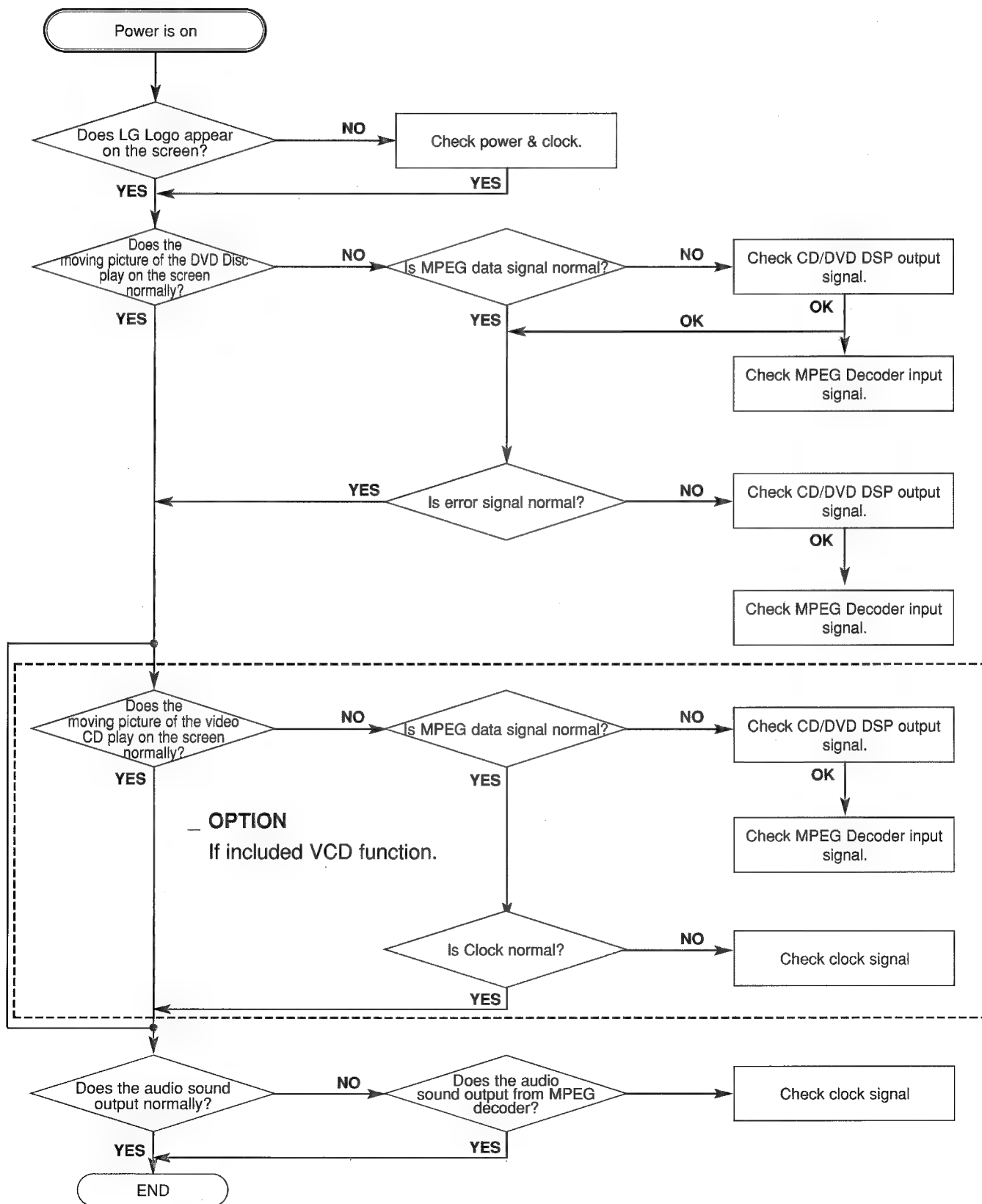
### E. Picture abnormal



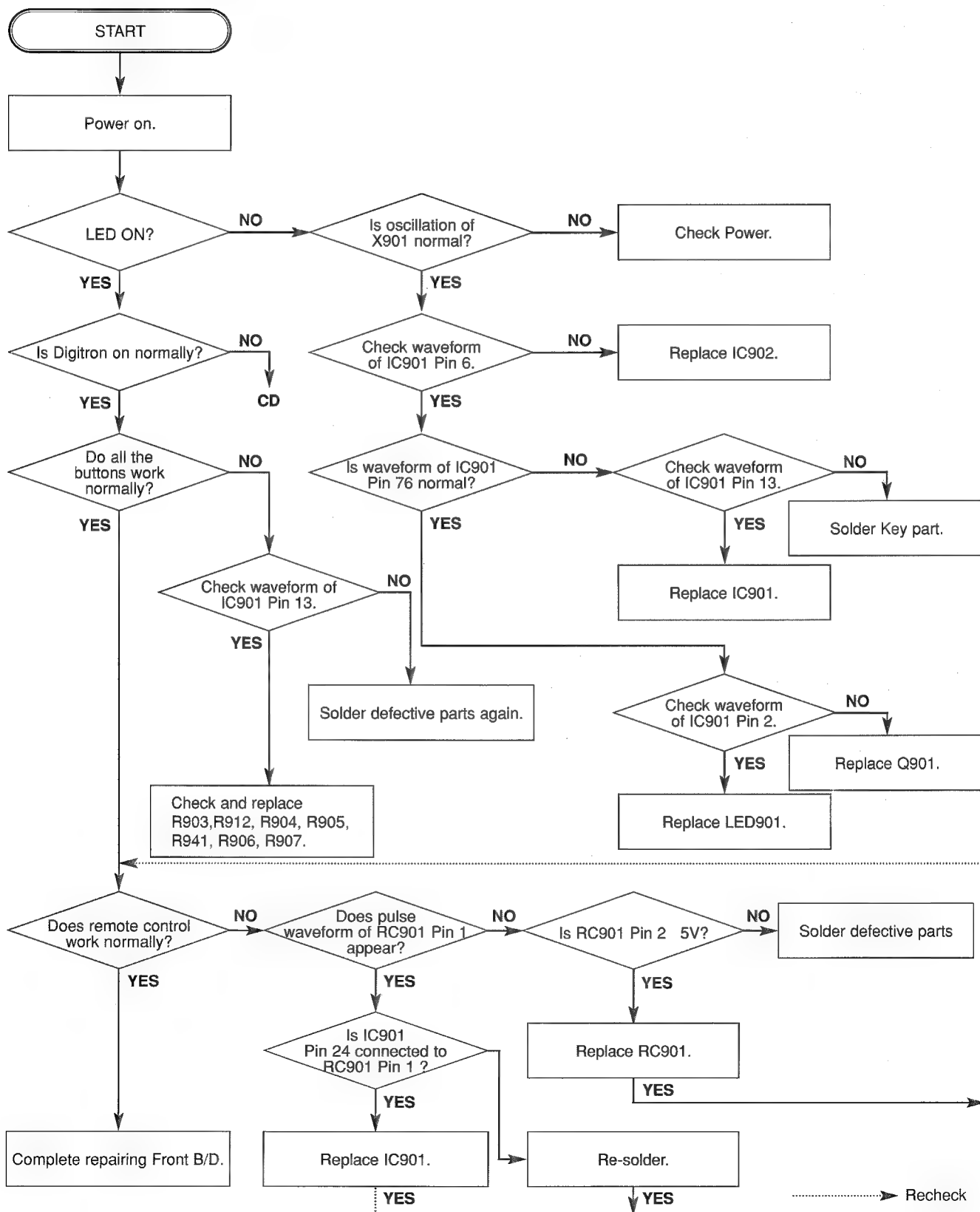
### F. Disc Error



### 3. MPEG Circuit

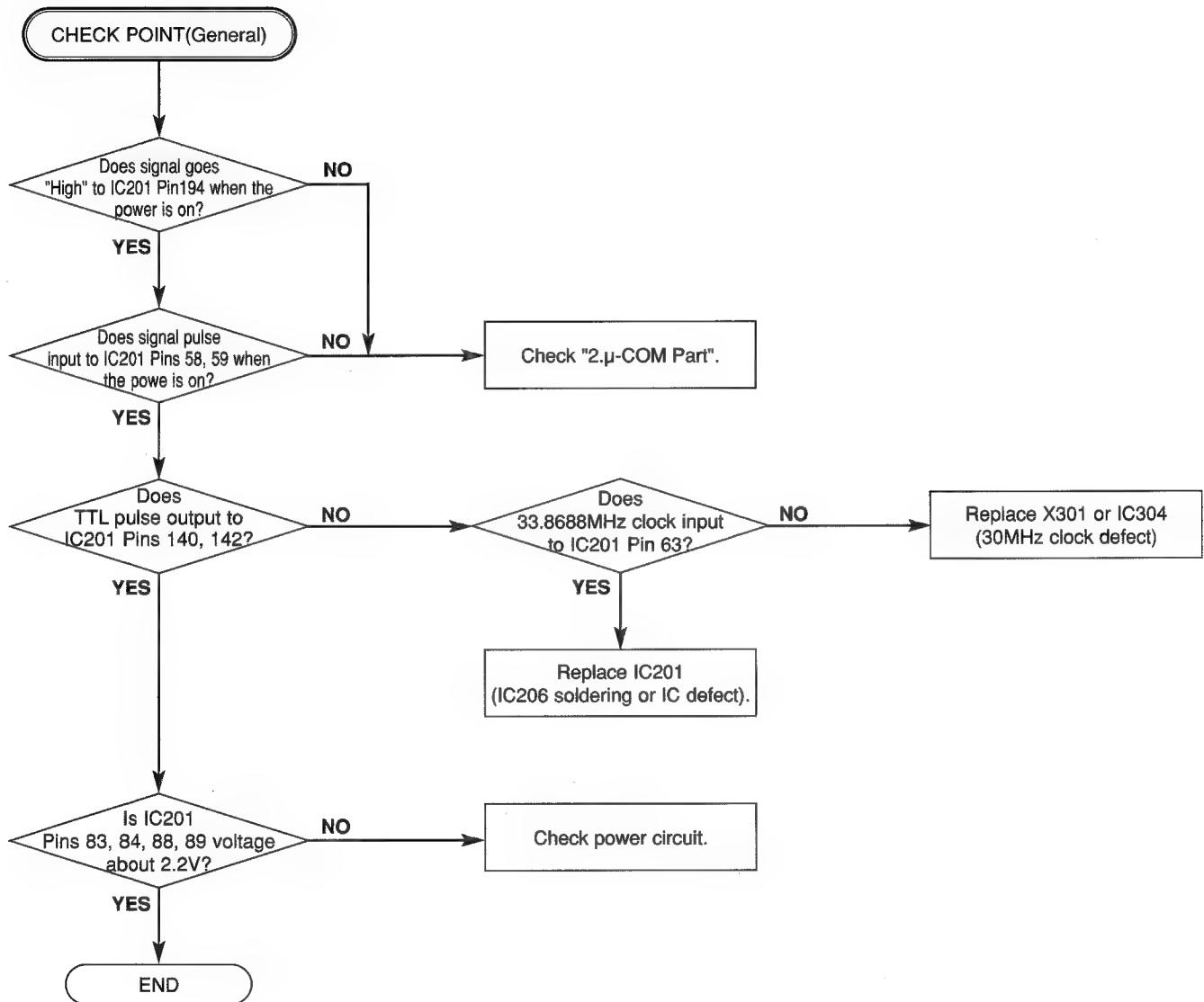


#### 4. Front Circuit (Digitron & key)

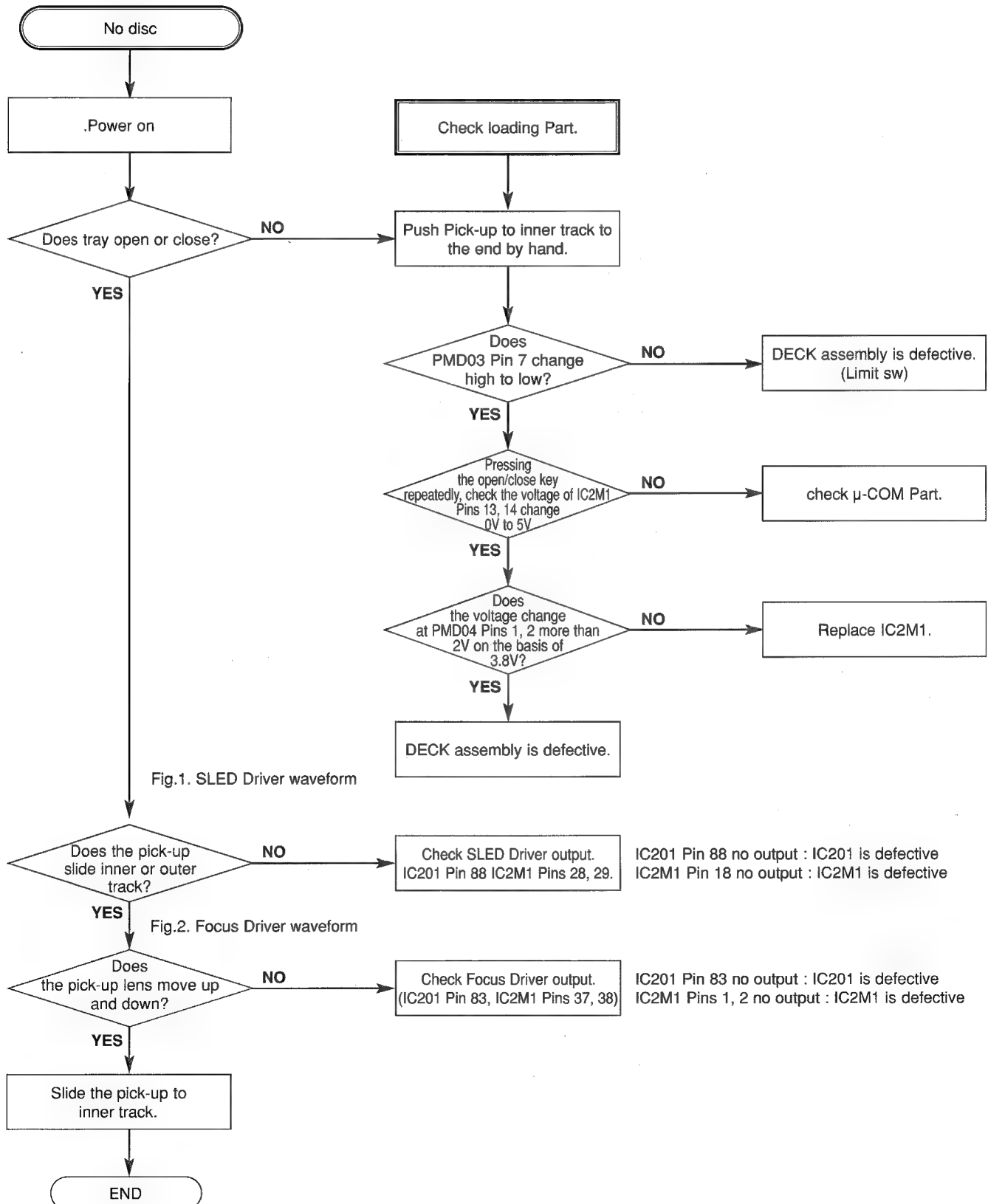


## 5. RF/Servo Circuit

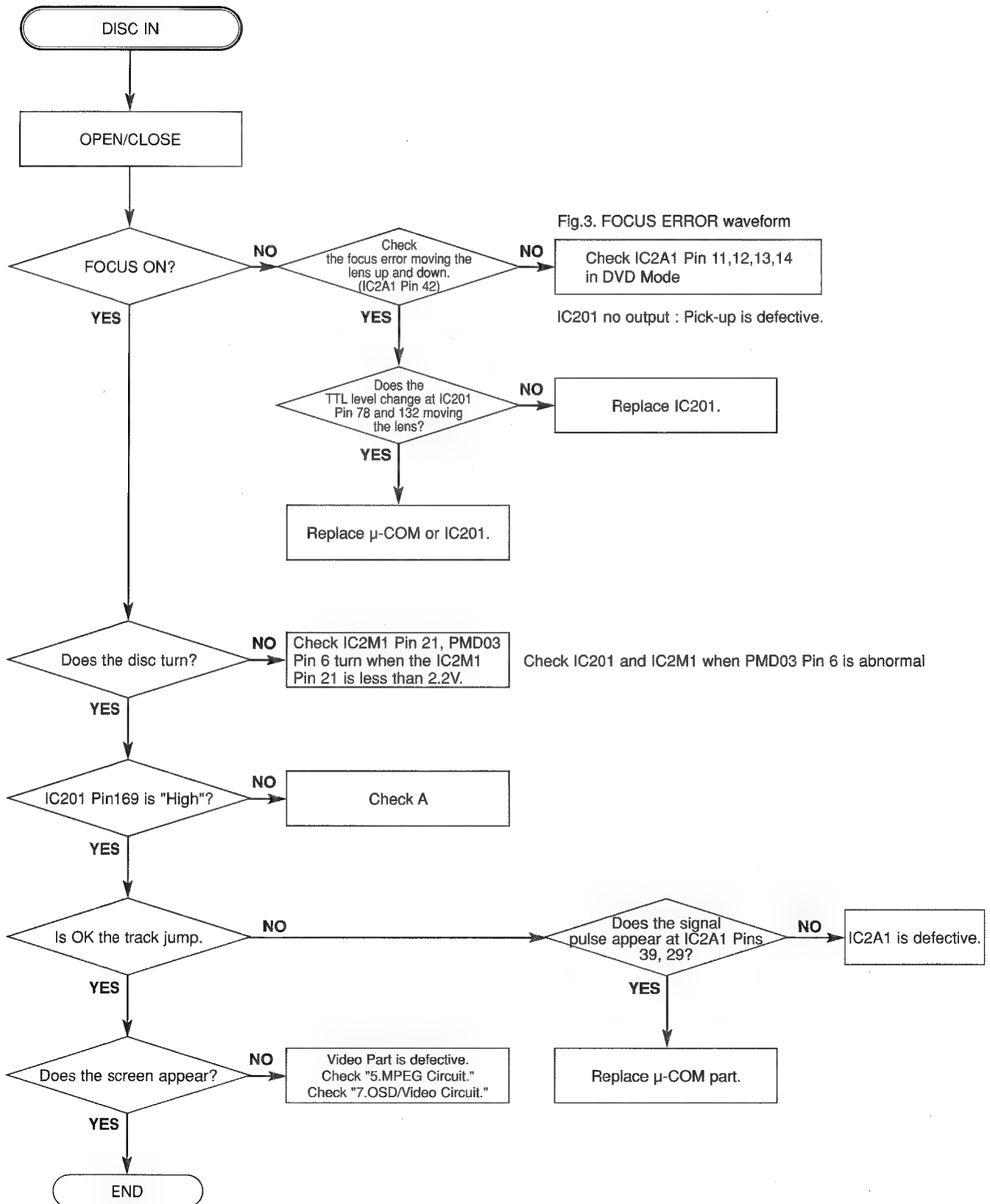
A.



B.

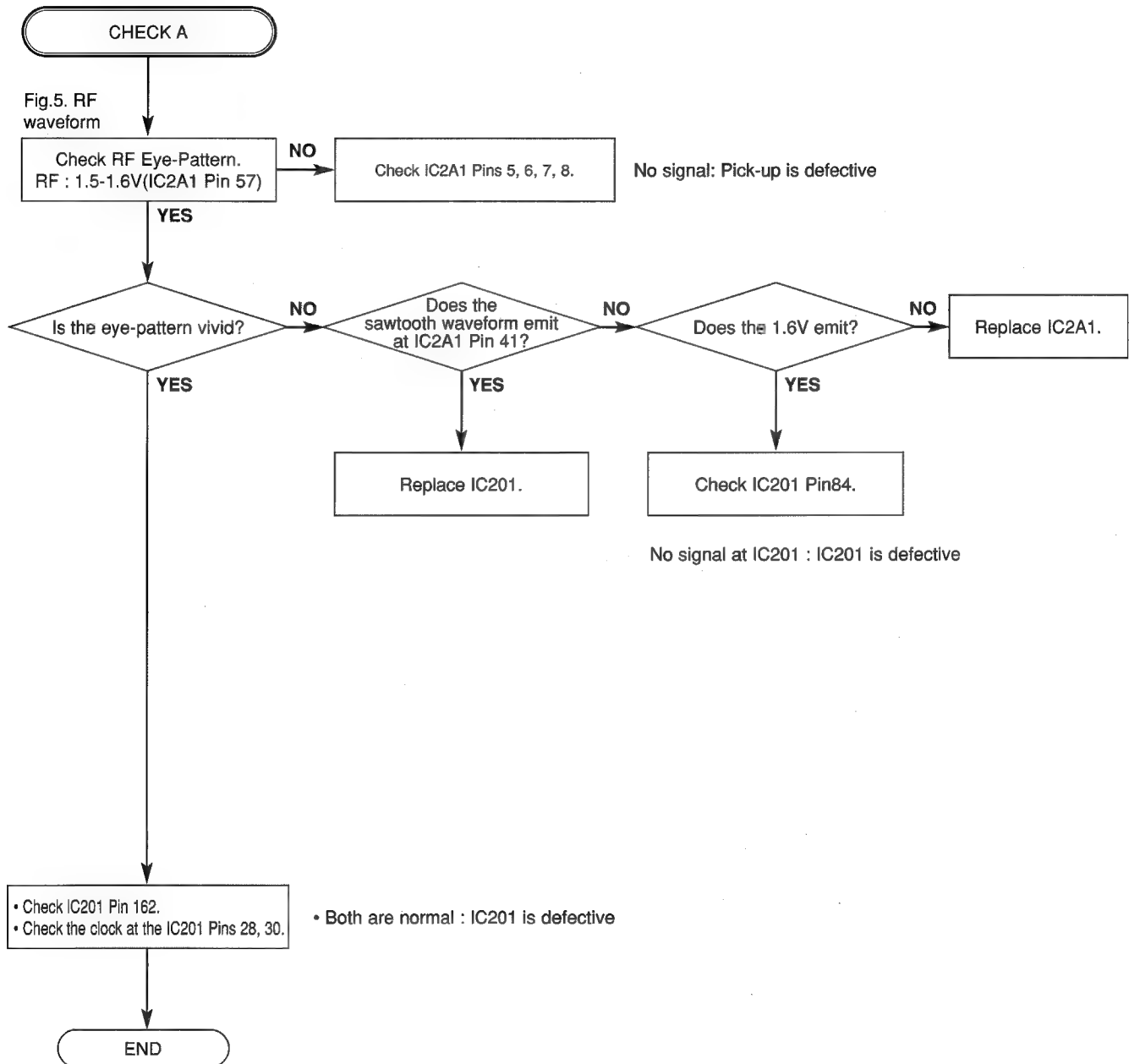


C.



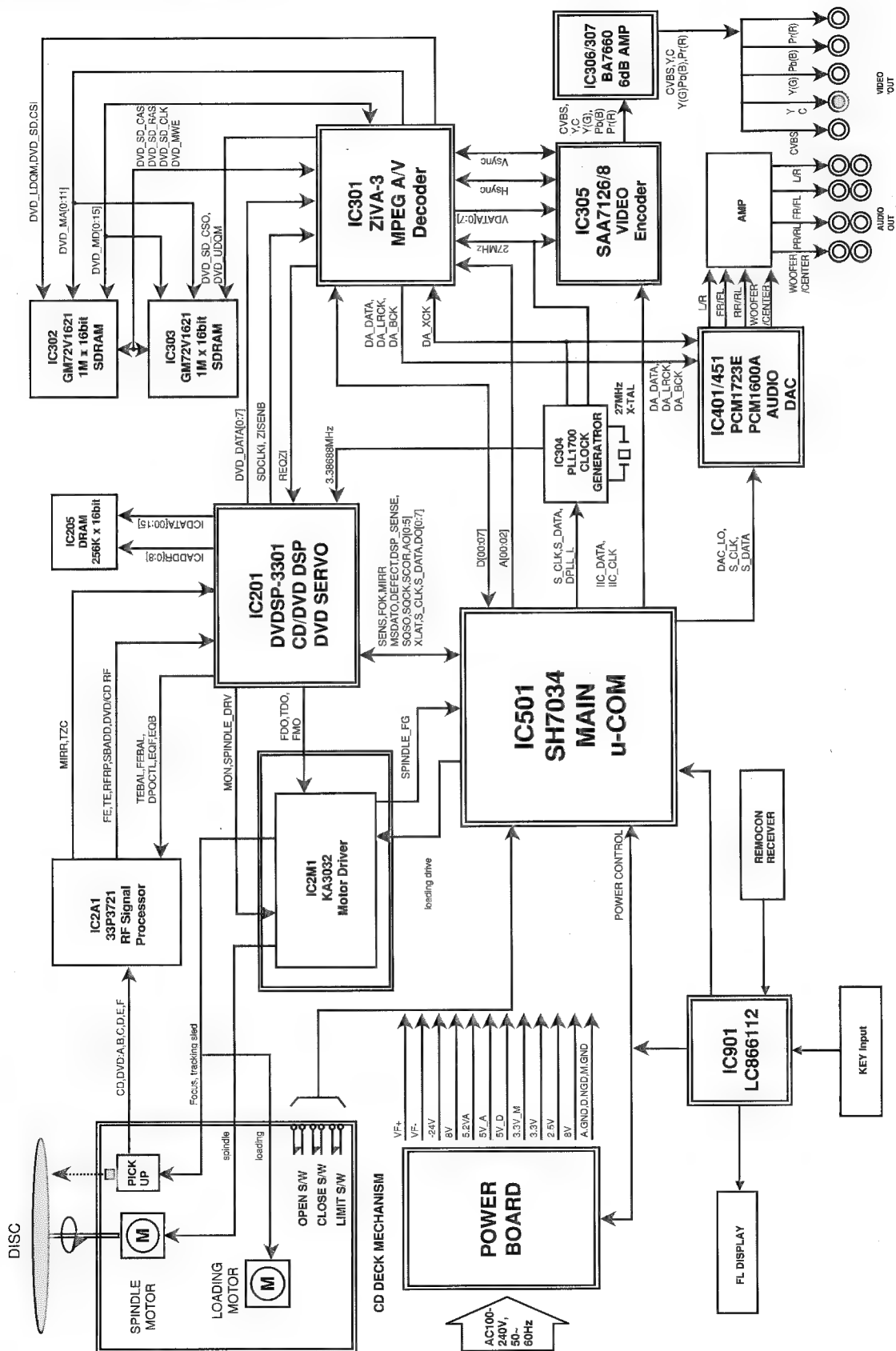


D.

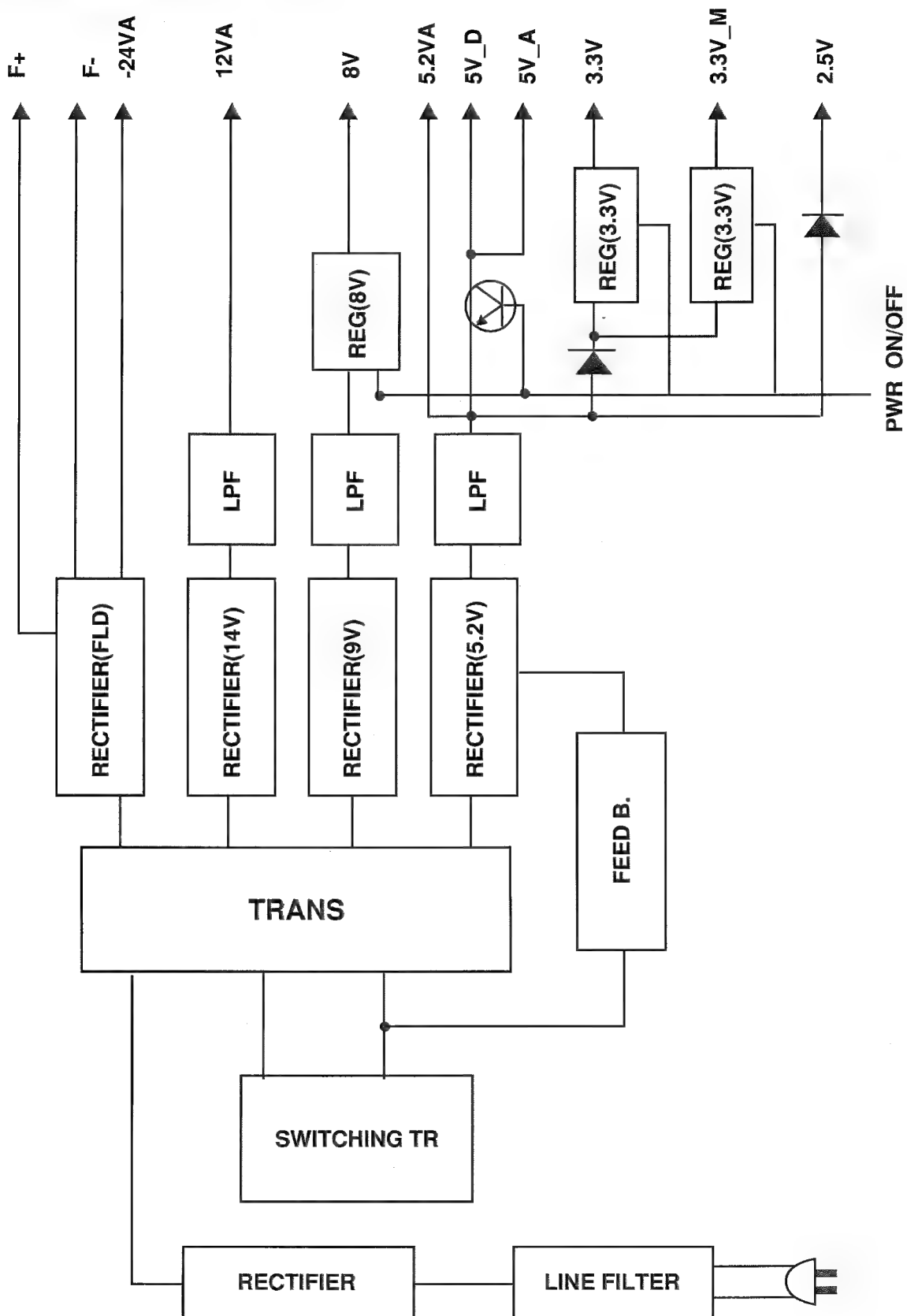


# BLOCK DIAGRAMS

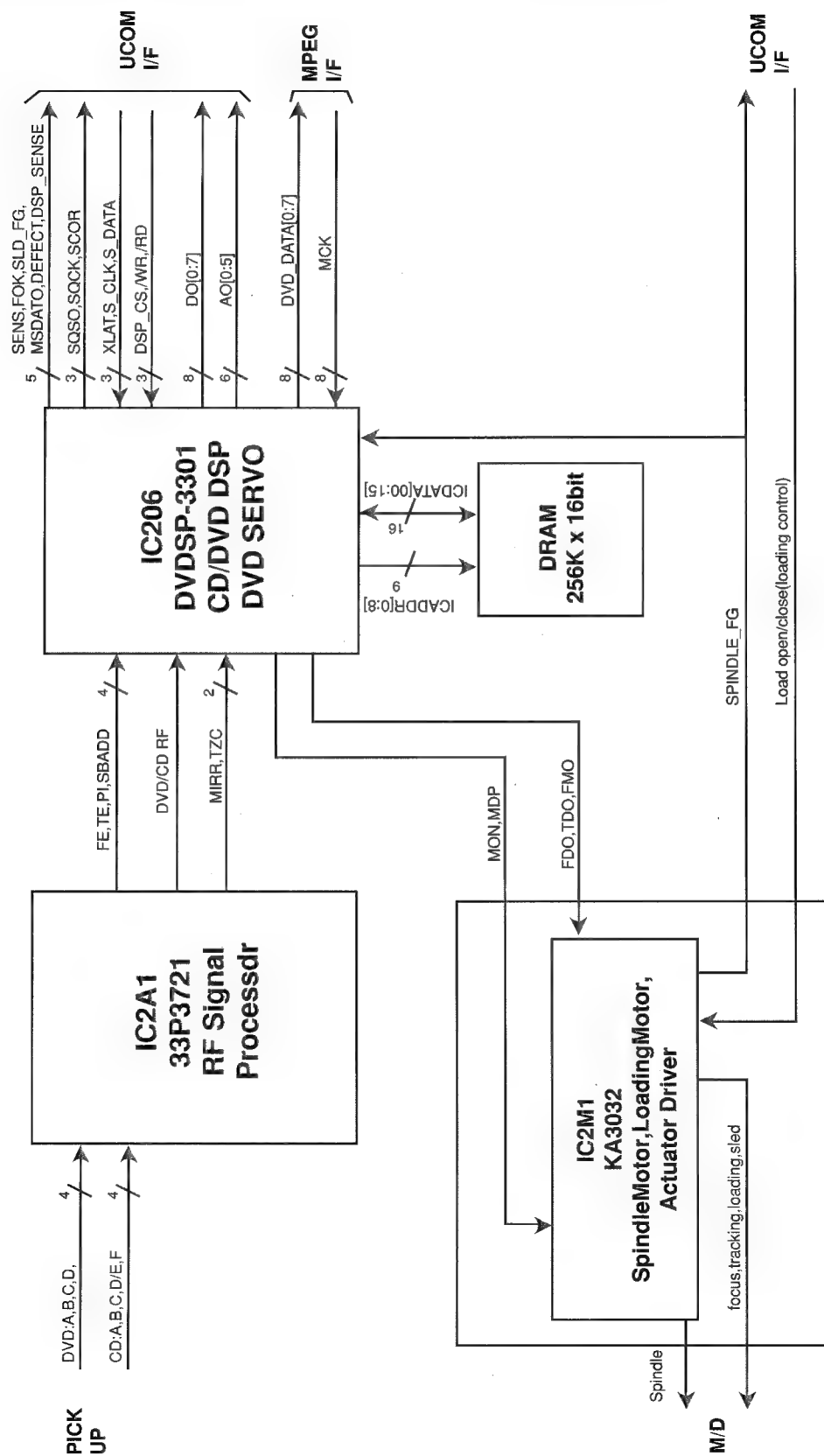
## 1. Overall Block Diagram



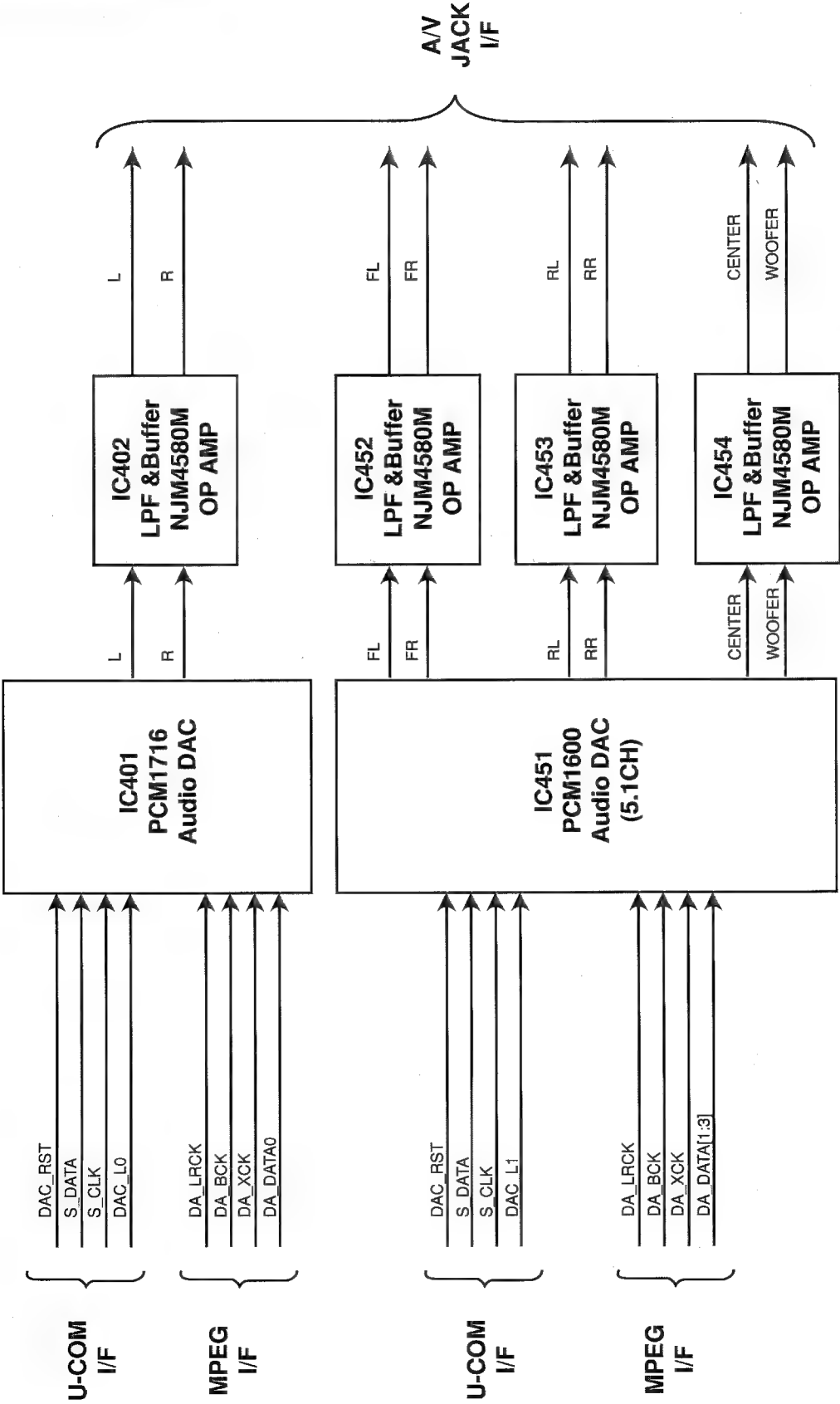
## 2. Power(SMPS) Block Diagram



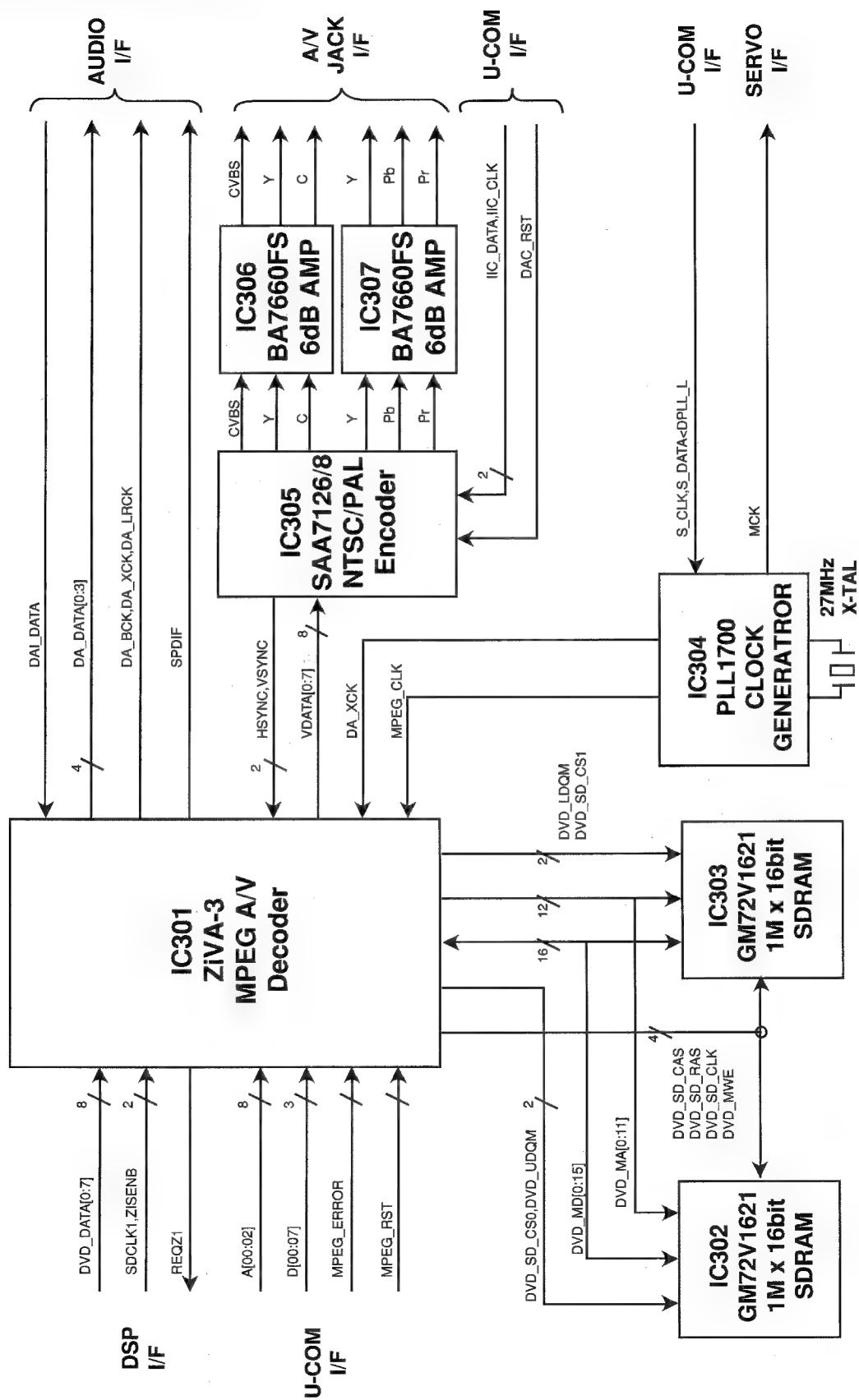
### 3. RF/CD DSP/DVD DSP/DVD SERVO Block Diagram



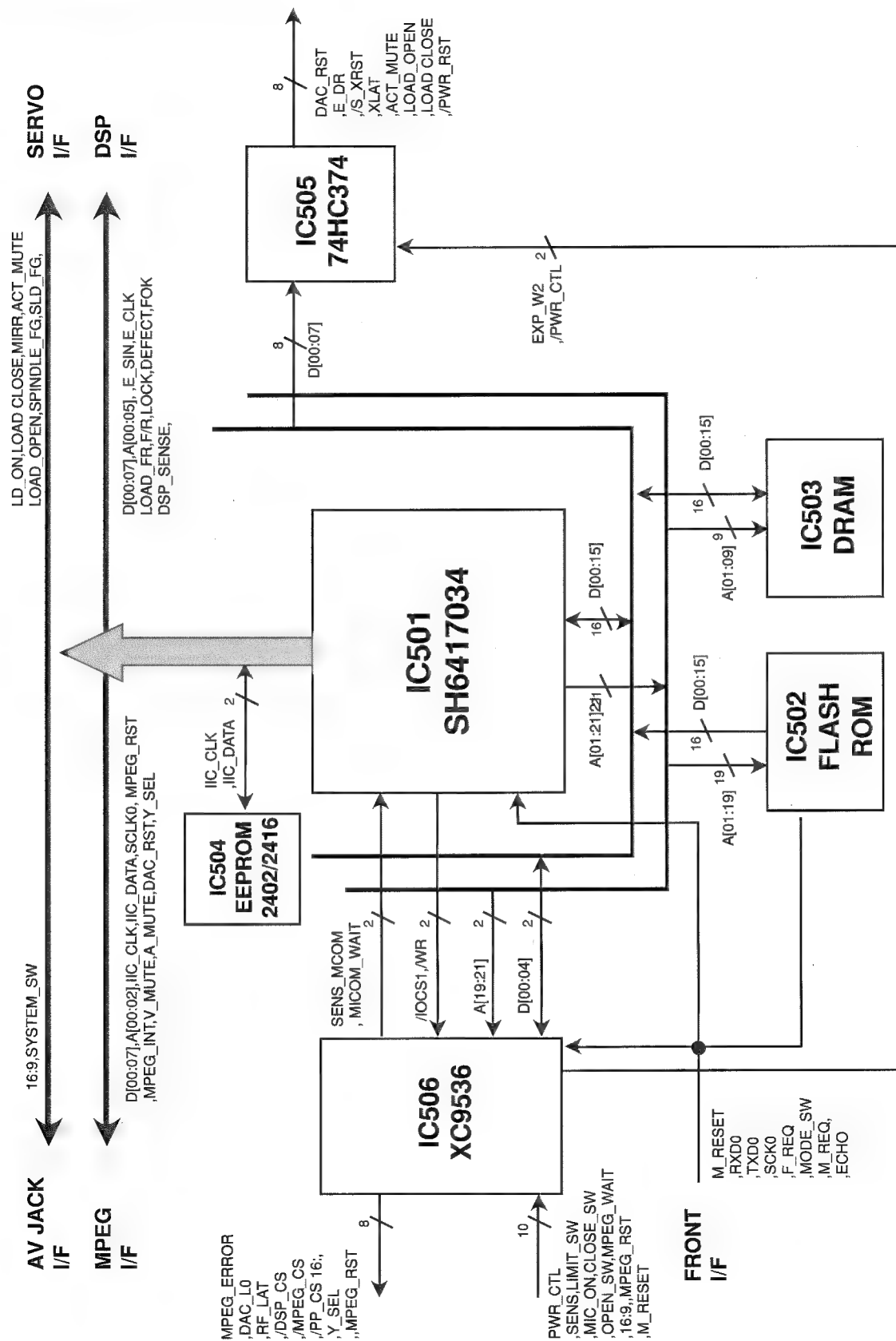
4. Audio Block Diagram



## 5. MPEG Block Diagram



## 6. $\mu$ -COM Block Diagram



# SECTION 4 MECHANISM

## CONTENTS

### DECK MECHANISM PARTS LOCATIONS

- Top View.....4-1
- Top View(without Tray Disc) .....4-1
- Bottom View .....4-1

### DECK MECHANISM DISASSEMBLY

1. Holder Clamp.....4-2
  - 1-1. Clamp Assembly Disc.....4-2
    - 1-1-1. Plate Clamp .....4-2
    - 1-1-2. Magnet Clamp .....4-2
    - 1-1-3. Clamp Upper.....4-2
2. Tray Disc .....4-2
3. Base Assembly Sled .....4-3
  - 3-1. Gear Assembly Feed .....4-3
  - 3-2. Gear Assembly Middle.....4-3
  - 3-3. Gear Assembly Rack .....4-3
4. Rubber Rear.....4-3

5. Frame Assembly Up/Down .....4-4
6. Belt Loading.....4-4
7. Gear Pulley .....4-4
8. Gear Loading .....4-4
9. Guide Up/Down.....4-4
10. PWB Assembly Loading .....4-4
11. Base Main.....4-4

### DECK MECHANISM ADJUSTMENT

1. Tools and Fixtures for SVC .....4-5
2. Install Process .....4-5
3. Adjustment Process.....4-6

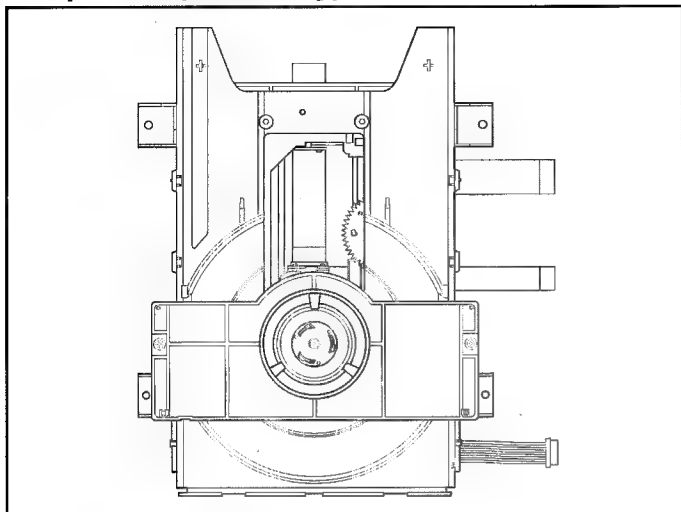
### EXPLODED VIEW

1. Deck Mechanism Exploded View....4-7

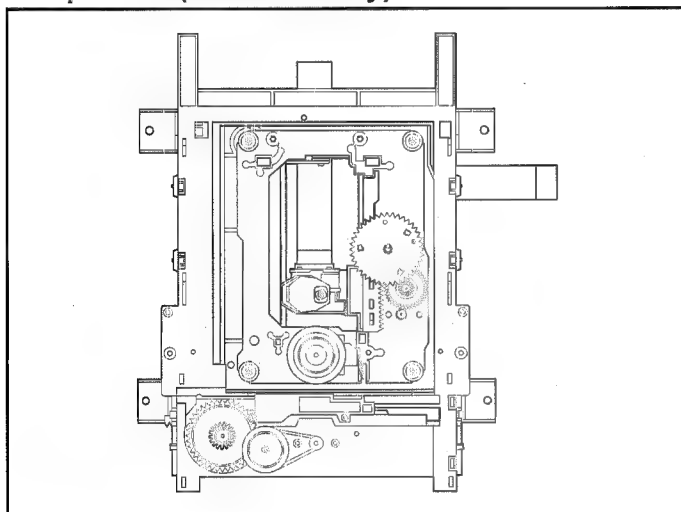


# DECK MECHANISM PARTS LOCATION

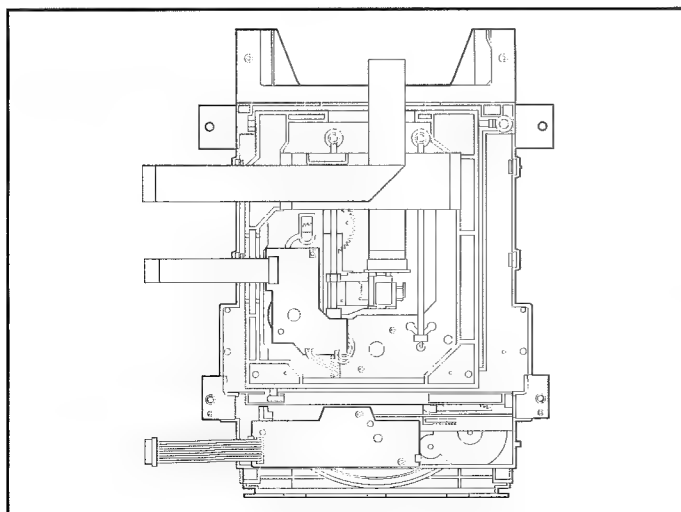
## • Top View (With Tray)



## • Top View (Without Tray)



## • Bottom View



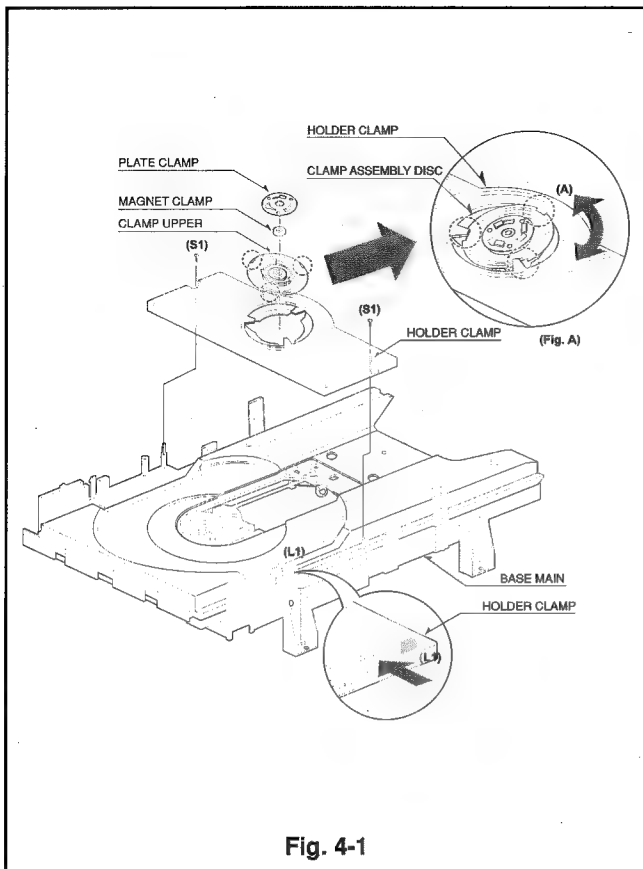
Procedure		Parts	Fixing Type	Disass embly	Fig- ure
Starting No.					
	1	Holder Clamp	2 Screws, 2 Locking Tabs		4-1
1	2	Clamp Assembly Disc			4-1
1, 2	3	Plate Clamp			4-1
1, 2, 3	4	Magnet Clamp			4-1
1, 2, 3, 4	5	Clamp Upper			4-1
1	6	Tray Disc			4-2
1, 6	7	Base Assembly Sled			4-3
1, 2, 6	8	Gear Assembly Feed	4 Screws, 1 Connector 1 Locking Tabs		4-3
1, 2, 6, 8	9	Gear Middle			4-3
1, 2, 6, 8, 9	10	Gear Assembly Rack	1 Screw		4-3
1, 2, 7	11	Rubber Rear			4-3
1, 2, 7	12	Frame Assembly Up/Down	1 Screw	Bottom	4-4
1, 2	13	Belt Loading	1 Locking Tab		4-4
1, 2, 13	14	Gear Pulley			4-4
1, 2, 13, 14	15	Gear Loading	1 Locking Tab		4-4
1, 2, 7, 12, 13, 14	16	Guide Up/Down			4-4
1, 2, 13	17	PWB Assembly Loading	1 Locking Tab 2Screw	Bottom	4-4
1, 2, 7, 12, 13, 14, 15, 16, 17	18	Base Main	2 Locking Tabs		4-4

### Note

When reassembling, perform the procedure in reverse order.

The "Bottom" on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

# DECK MECHANISM DISASSEMBLY



## 1. Holder Clamp (Fig. 4-1)

- 1) Release 2 Screws(S1).
- 2) Unhook 2 Locking Tabs(L1).
- 3) Lift up the Holder Clamp and then separate it from the Base Main.

### 1-1. Clamp Assembly Disc

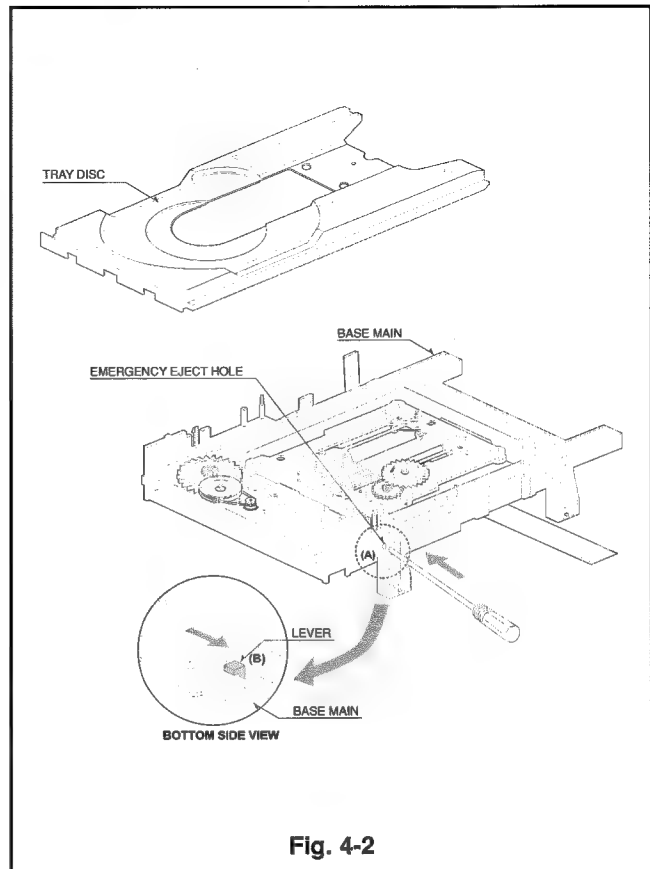
- 1) Place the Clamp Assembly Disc as Fig. (A)
- 2) Lift up the Clamp Assembly Disc in direction of arrow(A).
- 3) Separate the Clamp Assembly Disc from the Holder Clamp.

#### 1-1-1. Plate Clamp

- 1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

#### 1-1-2. Magnet Clamp

#### 1-1-3. Clamp Upper



## 2. Tray Disc (Fig. 4-2)

- 1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
- 2) Pull the Tray Disc until it is separated from the Base Main completely.

# DECK MECHANISM DISASSEMBLY

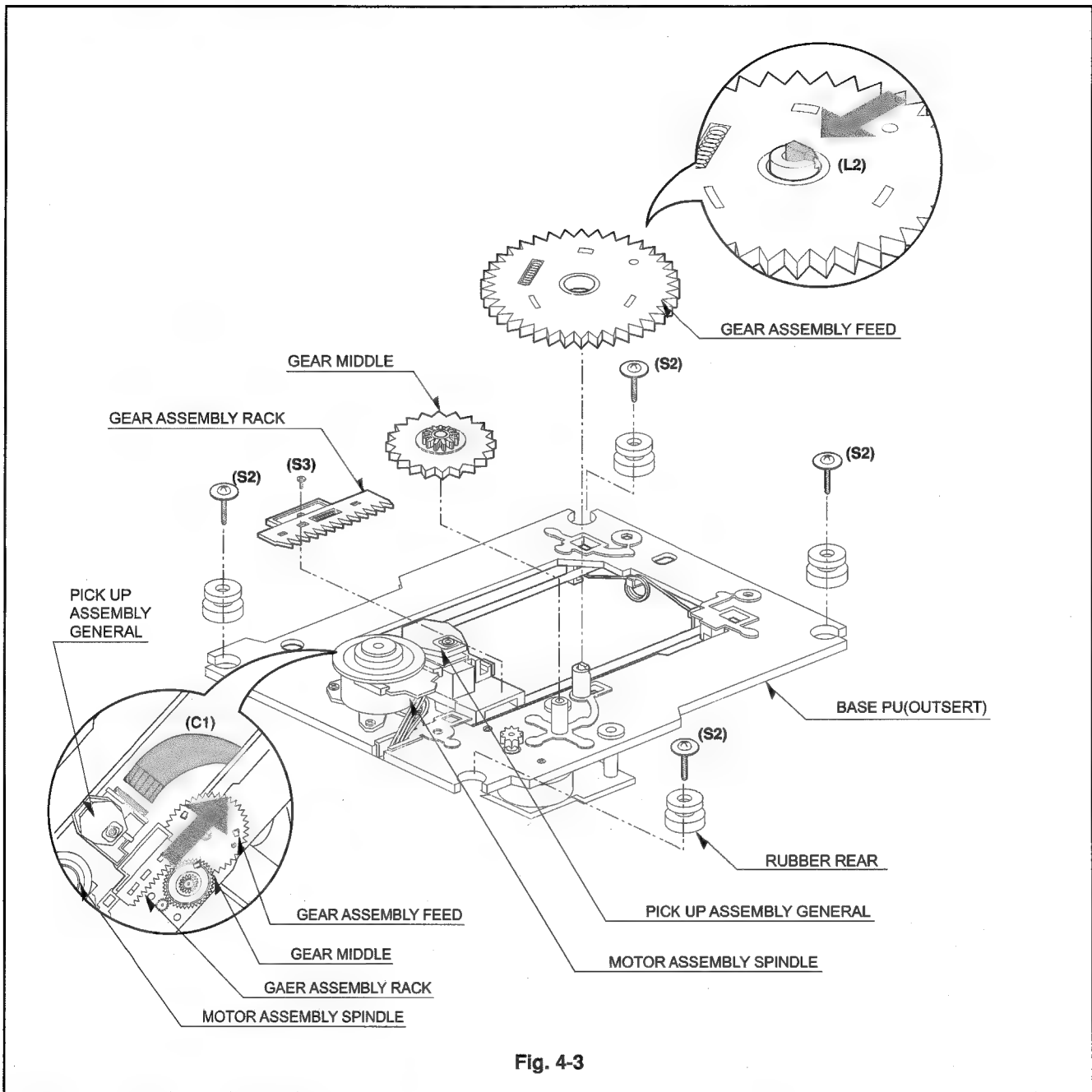


Fig. 4-3

## 3. Base Assembly Sled (Fig. 4-3)

- 1) Release 4 Screw(S2).
- 2) Disconnect the FFC Connector(C1)

## 3-1. Gear Assembly Feed

- 1) Unhook the Locking Tab(L2) in direction of arrow.

## 3-2. Gear Middle

## 3-3. Gear Assembly Rack

- 1) Release the Scerw(S3)

## 4. Rubber Rear (Fig. 4-3)

# DECK MECHANISM DISASSEMBLY

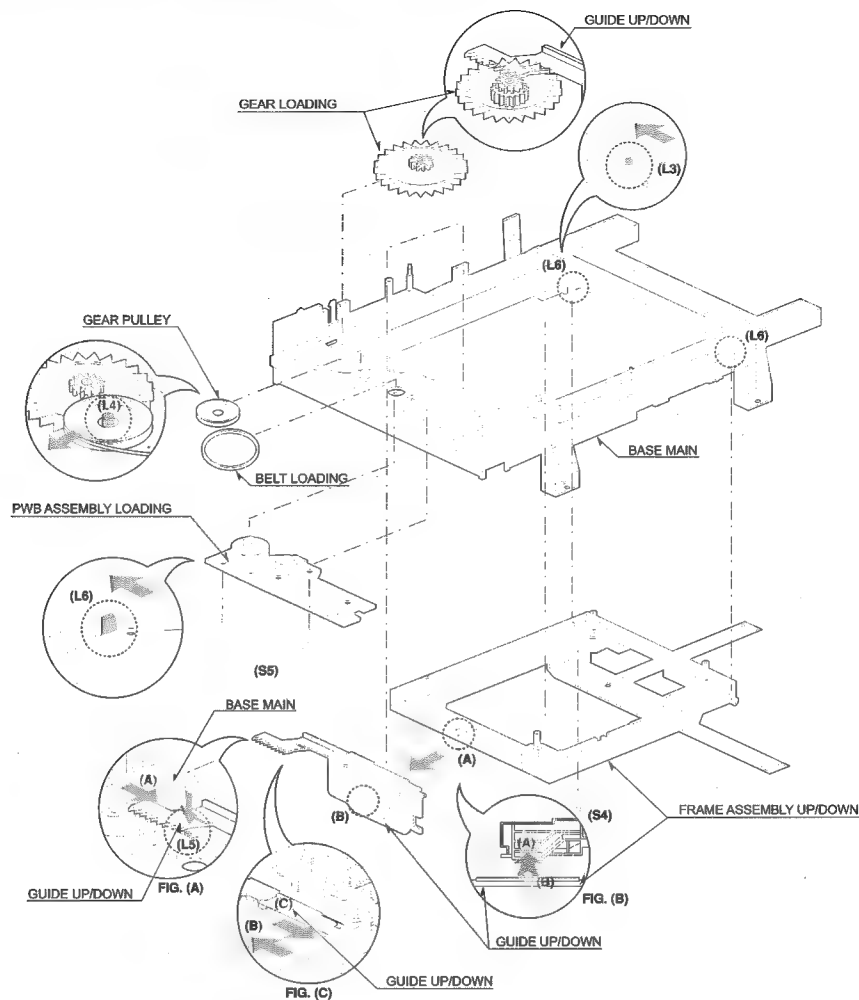


Fig. 4-4

## 5. Frame Assembly Up/Down

### Note

Put the Base Main face down (Bottom Side)

- 1) Release the Screw (S4)
- 2) Unlock the Locking Tab (L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

### Note

- When reassembling move the Guide Up/Down in direction of arrow (C) until it is positioned as Fig. (C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig. (B)

## 6. Belt Loading (Fig. 4-4)

### Note

Put the Base Assembly Main on original position (Top Side)

## 7. Gear pulley (Fig. 4-4)

- 1) Unlock the Locking Tab (L4) in direction of arrow (B) and then separate the Gear Pulley from the Base Main.

## 8. Gear Loading (Fig. 4-4)

## 9. Guide Up/Down (Fig. 4-4)

- 1) Move the Guide Up/Down in direction of arrow (A) as Fig. (A)
- 2) Push the Locking Tab (L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

### Note

When reassembling place the Guide Up/Down as Fig. (C) and move it in direction arrow (B) until it is locked by the Locking Tab (L5). And confirm the Guide Up/Down as Fig. (A)

## 10. PWB Assembly Loading

### Note

Put the Base Main face down (Bottom Side)

- 1) Release 2 Screws (S5)
- 2) Unlock 2 Locking Tabs (L6) and separate the PWB Assembly Loading from the Base Main.

## 11. Base Main (Fig. 4-4)

# **SECTION 5**

## **CONTENTS**

<b>DVC PARTS LIST .....</b>	<b>5-1</b>
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# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

**NOTE:** This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
AB	001	SEE A01	PLATE CLAMP
AB	002	SEE A01	MAGNET CLAMP(LDM-R608,10*5,1*1
AB	003	SEE A01	CLAMP UPPER
AB	004	841-10101	HOLDER CLAMP
AB	008	SEE A03	GEAR ASSY RACK
AB	009	SEE A03	GEAR MIDDLE
AB	011	833-10020	FRAME ASSY UP/DOWN(DP2)
AB	012	994-10013	RUBBER REAR(E2)
AB	012	994-10014	RUBBER DAMPER(E2,5040H-1054
AB	013	832-10017	BELT LOADING
AB	014	834-10092	GEAR PULLEY
AB	015	809-10487	PWB(PCB) ASSY,TOTAL LOADING (DP2)
AB	016	SEE A03	GEAR ASSY FEED
AB	017	834-10093	GEAR LOADING
AB	018	843-10049	GUIDE UP/DOWN
AB	020	804-10064	BASE MAIN
AB	026	857-10310	TRAY DISC
AB	250	804-10067	CASE TOP(DVD-3000'S) GRAY
A	260	804-10069	CHASSIS ASSY MAIN(DVD-3000'S)
B	260	804-10068	CHASSIS ASSY MAIN(DVD-3000'S)(D02
AB	275	841-10102	HOLDER MAIN PCB
AB	279	841-10103	HOLDER CONNECTOR
B	280	857-10309	PANEL ASSY FRONT(DVD3030NC 1U2
A	280	857-10312	PANEL ASSY FRONT(DVD3000NC 1U2
AB	283	828-10090	DOOR ASSY TRAY
AB	285	857-10308	PLATE ASSY SHIELD (DVD3000'S)
AB	300	811-10035	POWER CORD SP-120P NI SP-2 18/2
AB	300	811-10036	POWER CORD AP-10W NI SP2 CORE 8
AB	332	857-10307	PLATE MAIN GND(DVD-3000 SU
AB	465	912-10006	SCREW SPECIAL(3X10 BK)R-E41M R-E44M 1UG1
B	801	206-03617	INSTRUCTION ASSY ADV3030NC 1U21
A	801	206-03616	INSTRUCTION ASSY ADV3000NC 1U21
AB	811	852-00766	PLUG ASSY PHONO CORD 1WAY (YL)P-H310M 1UG1
AB	812	852-00767	PLUG ASSY PHONO CORD 2WAY (RD/P-H310M
AB	813	852-10019	CABLE S-VHS CORD SUAHN
A	900	924-10083	REMOTE CONTROLLER AS D2 NOR(DVD-3000NC ZE
B	900	924-10082	REMOTE CONTROLLER AS J4(DVD-3030NC 1U21)
AB	A00	969-10008	DECK ASSY,VIDEO DVD PLAYER(DP2)
AB	A01	817-10014	CLAMP ASSY DISC(DP2)
AB	A02	804-10065	BASE ASSY MAIN(DP2 PLAYER)
AB	A03	804-10066	BASE ASSY SLED(DP2)
B	A43	809-10482	BOARD ASSY FRONT (DVD3030NC 1U
A	A43	857-10311	BOARD ASSY FRONT (DVD3000NC 1U
A	A46	809-10489	PWB(PCB) ASSY,TOTAL DVD-3000NC'S EVENT M
B	A46	809-10483	PWB(PCB) ASSY,TOTAL DVD-3030NC EVENT MAI
A	A48	809-10490	PWB(PCB) ASSY,TOTAL DVD-3000NC'S EVENT I
B	A48	809-10484	PWB(PCB) ASSY,TOTAL DVD-3030NC EVENT RCA
AB	BD101	903-10019	DIODE, 51WBA60 (1A 600V)
AB	C101	822-10380	CAP, PCX2 275V 0.1UF
AB	C103	822-10361	CAP, ELECTRO 100UF S200V
AB	C105	822-10841	CAP, POLY 0.01UF 630V
AB	C106	822-11256	CAP, HIGH-VOL 100P 1KV
AB	C110	822-11255	CAP, POLY 0.0047U 50V
AB	C111	822-10072	CAP, ELECTRO 3.3M 50V
AB	C112	822-10725	CAP, POLY 0.015UF 50V
AB	C114	822-10080	CAP, AC CON 0.01UF 400V

RC	REF	PART#	DESCRIPTION
AB	C115	822-10725	CAP, POLY 0.015UF 50V
AB	C116	822-10378	CAP, ELECTRO 470UF 25V
AB	C118	822-06573	CAP, ELECTRO 100M S16V
AB	C119	822-10376	CAP, CE 47UF 50V
AB	C120	822-10080	CAP, AC CON 0.01UF 400V
AB	C121	822-11245	CAP, ELECTRO 220U 16V
AB	C123	822-11244	CAP, AL.ELECTRO 1000UF 16v
AB	C124	822-11244	CAP, AL.ELECTRO 1000UF 16v
AB	C125	822-10722	CAP, ELECTROLYT 330UF 10V
AB	C126	822-10378	CAP, ELECTRO 470UF K25V
AB	C127	822-06768	CAP, ELECTRO CE, 47M 50V
AB	C128	822-10728	CAP, POLY 0.047UF 50V
AB	C129	822-11246	CAP, AL.ELECTRO 470UF 10V
AB	C130	822-06573	CAP, ELECTRO 100M S16V
AB	C131	822-06573	CAP, ELECTRO 100M S16V
AB	C134	822-06573	CAP, ELECTRO 100M S16V
AB	C137	822-11246	CAP, AL.ELECTRO 470UF 10V
AB	C140	822-11246	CAP, AL.ELECTRO 470UF 10V
AB	C201	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C203	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C205	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C206	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C207	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C210	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C221	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C223	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C224	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C226	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C227	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C228	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C229	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C232	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C237	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C238	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C239	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C240	822-10959	CAP, CHIP CERAMIC M/L H.D F/S 2200PF 50V
AB	C241	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C242	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C245	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C250	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C255	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C256	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C257	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C258	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C260	822-10964	CAP, CHIP CERAMIC M/ 10P 50V
AB	C270	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C271	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C272	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C273	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C274	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C275	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C276	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C277	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C278	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C279	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C280	822-10969	CAP, CHIP TANTALUM 10UF 6.3V



Critical safety components are identified by shading. Replace only with part numbers specified.

# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

**NOTE:** This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
AB	C281	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C284	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C285	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A0	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A1	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A2	822-10959	CAP, CHIP CERAMIC M/L H.D F/S 2200PF 50V
AB	C2A3	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A4	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A5	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A6	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A7	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A8	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2A9	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2B0	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2B1	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2B2	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2B3	822-11249	CAP, CHIP CERAMIC M/L H.D F/S 0.0470UF 25V
AB	C2B4	822-11252	CAP, CHIP CERAMIC 560PF 50V
AB	C2B5	822-11252	CAP, CHIP CERAMIC 560PF 50V
AB	C2B6	822-11248	CAP, CHIP CERAMIC M/L HD 0.033UF 50V
AB	C2B7	822-11248	CAP, CHIP CERAMIC M/L HD 0.033UF 50V
AB	C2B8	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2B9	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2C0	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C2C1	822-10959	CAP, CHIP CERAMIC M/L H.D F/S 2200PF 50V
AB	C2C2	822-10959	CAP, CHIP CERAMIC M/L H.D F/S 2200PF 50V
AB	C2C3	822-10959	CAP, CHIP CERAMIC M/L H.D F/S 2200PF 50V
AB	C2C4	822-10959	CAP, CHIP CERAMIC M/L H.D F/S 2200PF 50V
AB	C2C5	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2C8	822-10968	CAP, CHIP CERAMIC M/L 33P 50V
AB	C2C9	822-10968	CAP, CHIP CERAMIC M/L 33P 50V
AB	C2D2	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C2D3	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C2D4	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C2D5	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C2D6	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2D7	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2D9	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2E1	822-10962	CAP, CHIP CERAMIC M/L H.D F/S 3900PF 50V
AB	C2M1	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
AB	C2M2	822-11250	CAP, CHIP CERAMIC M/L H.D F/S 6800PF 50V
AB	C2M3	822-10963	CAP, CHIP CERAMIC 4700PF 50V
AB	C2M4	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2M5	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2M6	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2M7	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2M8	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2M9	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2N1	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C2N2	822-10956	CAP, CHIP CERAMIC M/L H.D F/S 0.01UF 50V
AB	C2N3	822-10960	CAP, CHIP CERAMIC M/L H.D F/S 0.022UF 50V 5
AB	C2N4	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C301	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C302	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C303	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C304	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V

RC	REF	PART#	DESCRIPTION
AB	C305	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C306	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C307	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C308	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C309	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C310	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C311	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C312	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C313	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C314	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C315	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C316	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C317	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C318	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C319	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C320	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C321	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C322	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C323	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C324	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C325	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C326	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C327	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C328	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C329	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C330	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C331	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C332	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C333	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C334	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C335	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C336	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C337	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C338	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C340	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C341	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C342	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C346	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C347	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C348	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C349	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C350	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C351	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C352	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C353	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C354	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C355	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C356	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C357	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C358	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C359	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C360	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C361	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
AB	C362	822-11254	CAP, TANTALUM 22UF 6.3V
AB	C363	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
AB	C364	822-11254	CAP, TANTALUM 22UF 6.3V



Critical safety components are identified by shading. Replace only with part numbers specified.

# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
AB	C365	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
B	C366	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
B	C367	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
B	C368	822-11254	CAP, TANTALUM 22UF 6.3V
B	C369	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
B	C370	822-11254	CAP, TANTALUM 22UF 6.3V
B	C371	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
B	C372	822-11254	CAP, TANTALUM 22UF 6.3V
AB	C373	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C401	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C402	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C403	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C404	822-10969	CAP, CHIP TANTALUM 10UF 6.3V
AB	C406	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C407	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C408	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C409	822-10975	CAP, CHIP AL. ELECTRO 47UF 6.3V
AB	C410	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C411	822-10955	CAP, CHIP CERAMIC M/L H.D F/S 1000PF 50V
AB	C412	822-10965	CAP, CHIP CERAMIC M/L T 100PF 50V
AB	C413	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C415	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C416	822-10955	CAP, CHIP CERAMIC M/L H.D F/S 1000PF 50V
AB	C417	822-10965	CAP, CHIP CERAMIC M/L T 100PF 50V
AB	C418	822-10962	CAP, CHIP CERAMIC M/L H.D F/S 3900PF 50V
AB	C419	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C420	822-10962	CAP, CHIP CERAMIC M/L H.D F/S 3900PF 50V
AB	C421	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C423	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C424	822-10956	CAP, CHIP CERAMIC M/L H.D F/S 0.01UF 50V
AB	C427	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C428	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C429	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
AB	C430	822-10973	CAP, CHIP AL. ELECTRO 100UF 16V
AB	C501	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C502	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C503	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C504	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C506	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C507	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C508	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C509	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C512	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C513	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C514	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C515	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C516	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C517	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C518	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C519	822-11247	CAP, CHIP CERAMIC M/L HD 2.2000UF 16V
AB	C520	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C521	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C522	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C523	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C524	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C525	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V

RC	REF	PART#	DESCRIPTION
AB	C526	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C527	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C529	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C531	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C532	822-10966	CAP, CHIP CERAMIC M/L T.C F/S 220PF 50V
AB	C534	822-11251	CAP, CHIP CERAMIC M/L T.C F/S 56PF 50V
AB	C535	822-10957	CAP, CHIP CERAMIC 0.1UF 50V
AB	C606	822-07037	CAP, TUBULAR (HIGH DIELE) 0.01M 16V
AB	C901	822-10011	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
AB	C902	822-10093	CAP, ELECTRO 10UF 20% 16V
AB	C903	822-06765	CAP, TUBULAR 33P 50V
AB	C904	822-06765	CAP, TUBULAR 33P 50V
AB	C906	822-10952	CAP, AL.ELECTRO 47UF 35V
AB	C907	822-10093	CAP, ELECTRO 10UF 20% 16V
AB	C909	822-10011	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
AB	C910	822-10011	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
AB	C912	822-06570	CAP, ELECTRO 47M 20% 16V
AB	C913	822-06570	CAP, ELECTRO 47M 20% 16V
AB	C914	822-06570	CAP, ELECTRO 47M 20% 16V
AB	D101	903-10175	DIODE
AB	D103	903-10256	DIODE, 1SS133 DETECT
AB	D104	903-10256	DIODE, 1SS133 DETECT
AB	D105	903-10413	DIODE, RECTIFIER RL104 R. TP GULF SEMICO
AB	D106	903-10322	DIODE, RECTIFIER RU3YXLF-C1 BK SANKEN
AB	D107	903-10446	DIODE, RECTIFIER ERA18-02KFRB TP FUJI DO
AB	D108	903-10064	DIODE, EU01W(R-FORM) T R-B413M SEARS-580.55154490 R-B9
AB	D109	903-10444	DIODE, RECTIFIER B10A45V1 BK KEC TO220 4
AB	D110	903-10446	DIODE, RECTIFIER ERA18-02KFRB TP FUJI DO
AB	D113	903-10445	DIODE, RECTIFIER 1N5402 BK GULF SEMICOND
AB	D114	903-10413	DIODE, RECTIFIER RL104 R. TP GULF SEMICO
AB	D116	903-10443	DIODE, RECTIFIER RZ1040 BK SANKEN D04
AB	D204	903-10447	DIODE, RECTIFIER RB495D TP ROHM SMD 40V
AB	D205	903-10447	DIODE, RECTIFIER RB495D TP ROHM SMD 40V
AB	D2A1	903-10354	DIODE, SWITCHING DAN202K TP ROHM KOREA S
B	D906	903-10256	DIODE, 1SS133 DETECT
AB	D909	903-10256	DIODE, 1SS133 DETECT
AB	DIG901	903-10451	DIGITRON 7-BT-273GN FUTABA UN
AB	F101	936-10023	FUSE SLOW BLOW 1600MA 250 V 5.2X20
AB	IC104	905-10200	IC, SAMSUNG SEMICONDU KA431AZ
AB	IC105	905-10388	IC, SAMSUNG ELECTRONICS KAT8R08 4P
AB	IC106	905-10517	IC, SHARP PQ3RD13 TO220 ST 3.3
AB	IC107	905-10517	IC, SHARP PQ3RD13 TO220 ST 3.3
AB	IC108	905-10304	SENSOR LTV-817B PHOTO COUPLER R-T20M
AB	IC201	905-10512	IC, HYUNDAI GDC25D801AA 208QFP B
AB	IC203	905-10377	IC, (JAPAN RADIO CORP.)NJM3414A3K/REEL
AB	IC204	905-10522	IC, TOSHIBA TC4W53FU SSOP 8PIN
AB	IC205	905-10511	IC, G-LINK GLT441L16-40 J4 40S0
AB	IC2A1	905-10520	IC
AB	IC2A2	905-10377	IC, (JAPAN RADIO CORP.)NJM3414A3K/REEL
AB	IC2M1	905-10510	IC, FAIRCHILD KA3032 48QFP BK 5CH
AB	IC301	905-10509	IC, C-CUBE ZIVA3-PEO 208QFP BK
AB	IC302	905-10479	IC, LG SEMICONDUCTOR GM72V161621ET-7
AB	IC303	905-10479	IC, LG SEMICONDUCTOR GM72V161621ET-7
AB	IC304	905-10370	IC, BUR BROWN PLL1700E 20P SSOP TP PH
A	IC305	905-10524	IC, PHILIPS SAA7126H QFP44 BK EN



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# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
B	IC305	905-10514	IC, PHILIPS SAA7128 QFP44 BK DIG
AB	IC306	905-10515	IC, ROHM BA7660FS 16P SSOP TP
B	IC307	905-10515	IC, ROHM BA7660FS 16P SSOP TP
AB	IC401	905-10371	IC, BUR BROWN PCM1716E 28P SSOP TP DA
AB	IC402	905-10378	IC, JRC NJM4580M 8,DMP8 TP OP A
AB	IC403	905-10523	IC, TOSHIBA TC7W04FU
AB	IC404	905-10385	IC, SHARP PQ20WZ5U 20WZ51 TP REGU
AB	IC501	905-10376	IC, HITACHI HD6417034AFI20 1120FP B
AB	IC502	905-10369	IC, ATMEL AT49F8192A-90TC 48TSOP
AB	IC503	905-10513	IC, MOSEL V53C16256HK50 SOJ 4MDRA
AB	IC504	905-10368	IC, ATMEL AT24C02N-10SC-2.7 8S
AB	IC505	905-10389	IC, TEXAS INSTRUMENT SN74AHC374PWLE 20,TS
AB	IC506	905-10521	IC, XILINX XC9536-15VQ44C-PROGR
AB	IC901	905-10402	IC, SANYO LC866112B-5M04 80QFP BK
AB	IC902	905-10207	IC, KIA7042P SP 4.2V RESET, KEKIA7042P 3P 4.2V
B	JK601	844-10070	JACK,FIBER OPTIC TOTX178 TOSHIBA HORI
B	JK602	844-10069	JACK, RCA RCA DIN-07 YUQIU RCA
A	JK602	844-10071	JACK, RCA RCA DIN-05 YUQIU RCA
AB	L101	820-10201	FILTER(CIRC),KSE 145E KSE LINE FI
AB	L102	820-10230	COIL, CHOKE CHOCK(22MH) TP 5MM
AB	L103	820-10068	COIL, CHOCK 20UH, LEAD CUT
AB	L201	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L202	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L204	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L207	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L208	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L211	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L2A1	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L2A2	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L301	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L302	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L303	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L304	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L305	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L306	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L307	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L308	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L309	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L401	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L402	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L501	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L502	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L503	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L505	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L506	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L507	820-10244	FILTER(CIRC),EMI HB-1M2012-102JT CERA
AB	L902	820-02191	INDUCTOR RADIAL LEAD *P-H310M 100M K 6X6
AB	LED902	903-10442	LED SM3418F2T TP AUK GRE
AB	PBJIG	809-10488	PWB(PCB) ASSY,TOTAL DVD-3000'S JIG A'Y
AB	PBP00	809-10486	PWB(PCB) ASSY,TOTAL DVD-3000 EVENT POWER
AB	PBT00	809-10485	PWB(PCB) ASSY,TOTAL DVD-3000 EVENT KEY
AB	Q101	921-10041	TRANSISTOR, KTC4419 (SMPS)
AB	Q102	921-02133-01	TRANSISTOR, KTC3198-TP-BL
AB	Q107	921-10161	TRANSISTOR, KSB1151-Y BK SAMSUNG
AB	Q108	921-02133-01	TRANSISTOR, KTC3198-TP-BL
AB	Q2A1	921-10169	TRANSISTOR, 2SA1037K-Q CHIP

RC	REF	PART#	DESCRIPTION
AB	Q2M1	921-02271	TR CHIP KRC1035-T1(NC)
AB	Q2M2	921-02271	TR CHIP KRC1035-T1(NC)
AB	Q2M3	921-02271	TR CHIP KRC1035-T1(NC)
B	Q301	921-02274	TR CHIP KTC3875S-GR-T1(ALG)
B	Q302	921-02274	TR CHIP KTC3875S-GR-T1(ALG)
B	Q303	921-02274	TR CHIP KTC3875S-GR-T1(ALG)
B	Q304	921-02274	TR CHIP KTC3875S-GR-T1(ALG)
AB	Q401	921-10172	TRANSISTOR, KTA1505S-GR-T1
AB	Q404	921-10164	TRANSISTOR, UMZ1N TL UM6 3K TP ROHM
AB	Q607	921-10002	TRANSISTOR, KTC-3199-BL MINI TR-E44M
AB	Q608	921-10002	TRANSISTOR, KTC-3199-BL MINI TR-E44M
AB	Q615	921-10232	TRANSISTOR, KTA1267-GR MINI TPR-E44M
AB	Q901	921-10175	TRANSISTOR, KRC105M, TP(KRC1205), K
AB	R101	863-10276	RESISTOR 2.7/2W CEMENT SMPS
AB	R104	863-10384	RESISTOR FIX METAL FILM 33K 2W
AB	R109	863-06648	FIXED CARBON FILM 15K 1/6W 5
AB	R110	863-10383	RESISTOR FIX METAL FILM 120 1W 5
AB	R111	863-11425	RESISTOR, FIX METAL F 1 OHM 2 W 5%
AB	R112	863-06675	RESISTOR FIXED CARBON FILM 8.2 1/6W 5
AB	R114	863-06666	RESISTOR, FIXED CARBON FILM 100 1/6W
AB	R117	863-06672	FIXED CARBON FILM 100-J 1/6W
AB	R120	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R121	863-06660	RESISTOR, FIXED CARBON FILM 1.2K 1/6W 5
AB	R122	863-10383	RESISTOR FIX METAL FILM 120 1W 5
AB	R123	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R124	863-06663	RESISTOR, FIXED CARBON FILM 330 1/6W 5
AB	R125	863-06661	RESISTOR FIXED CARBON FILM 3.9 1/6W 5
AB	R126	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R127	863-11424	RESISTOR, FIXED METAL FILM 3.6K OHM 1/8W 1%
AB	R128	863-10931	RESISTOR FIX METAL FILM 3.3K 1/6W
AB	R130	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R131	863-06634	RESISTOR FIXED CARBON FILM 220 1/6W 5
AB	R132	863-06634	RESISTOR FIXED CARBON FILM 220 1/6W 5
AB	R140	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R141	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R144	863-10383	RESISTOR FIX METAL FILM 120 1W 5
AB	R145	863-06636	RESISTOR, FIXED CARBON FILM 470 1/6W 5
AB	R201	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R202	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R203	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R204	863-11150	RESISTOR CHIP 0 1/16W 5
A	R2	863-11426	RESISTOR FIXED CARBON FILM 27 1/6W 5
A	R2	863-11427	RESISTOR FIXED CARBON FILM 27 1/6W 5
AB	R217	863-11151	RESISTOR, CHIP 10 1/16W 5
AB	R218	863-11172	RESISTOR, CHIP 470 1/16W 5
AB	R219	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R220	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R221	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R230	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R231	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R232	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R233	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R234	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R235	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R236	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R237	863-11156	RESISTOR, CHIP 100 1/16W 5



Critical safety components are identified by shading. Replace only with part numbers specified.

# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

**NOTE:** This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
AB	R239	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R240	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R241	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R242	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R244	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R271	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R273	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R274	863-11177	RESISTOR, CHIP 620 OHM 1/16W 5
AB	R275	863-11181	RESISTOR, CHIP 910 OHM 1/16W 5
AB	R276	863-11181	RESISTOR, CHIP 910 OHM 1/16W 5
AB	R277	863-11162	RESISTOR, CHIP 150 1/16W 5
AB	R278	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R279	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R280	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R281	863-11167	RESISTOR, CHIP 2.2K 1/16W 5
AB	R292	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R293	863-11165	RESISTOR, CHIP 2K OHM 1/16 W 5
AB	R294	863-11162	RESISTOR, CHIP 150 1/16W 5
AB	R295	863-11165	RESISTOR, CHIP 2K OHM 1/16 W 5
AB	R296	863-11162	RESISTOR, CHIP 150 1/16W 5
AB	R297	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R2A0	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2A1	863-11419	RESISTOR, CHIP 91 1/16W 5
AB	R2A2	863-11420	RESISTOR, CHIP 12K 1/16W 5
AB	R2A5	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2A6	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2A9	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2B2	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2B3	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2B4	863-11152	RESISTOR, CHIP 18 1/16W 5
AB	R2B5	863-11152	RESISTOR, CHIP 18 1/16W 5
AB	R2B6	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2B7	863-11167	RESISTOR, CHIP 2.2K 1/16W 5
AB	R2B8	863-11421	RESISTOR, CHIP 150K 1/16W 5
AB	R2B9	863-11421	RESISTOR, CHIP 150K 1/16W 5
AB	R2C0	863-11423	RESISTOR CHIP 39K 1/16W
AB	R2C1	863-11423	RESISTOR CHIP 39K 1/16W
AB	R2C2	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2C3	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2C4	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R2C6	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2C7	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2D1	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2D4	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2D5	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2D7	863-11191	RESISTOR, CHIP 47 1/16W 5
AB	R2E1	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2E2	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2E3	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2E4	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2E5	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2E6	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R2E7	863-11167	RESISTOR, CHIP 2.2K 1/16W 5
AB	R2M1	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2M2	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2M3	863-11158	RESISTOR, CHIP 10K 1/16W 5

RC	REF	PART#	DESCRIPTION
AB	R2M5	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2M6	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2M7	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2M8	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2M9	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2N0	863-11420	RESISTOR, CHIP 12K 1/16W 5
AB	R2N1	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2N2	863-11175	RESISTOR, CHIP 5.6K 1/16W 5
AB	R2N3	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2N4	863-11163	RESISTOR, CHIP 15K 1/16W 5
AB	R2N5	863-11420	RESISTOR, CHIP 12K 1/16W 5
AB	R2N6	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2N7	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2N8	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2N9	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2P1	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2P2	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2P3	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2P4	863-11422	RESISTOR, CHIP 18K 1/16W 5
AB	R2P5	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R2P6	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R2P7	863-11168	RESISTOR, CHIP 22K 1/16W 5
AB	R2P8	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R2Q1	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R300	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R301	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R302	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R303	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R304	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R305	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R306	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R307	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R308	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R309	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R310	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R311	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R312	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R313	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R314	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R315	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R316	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R317	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R318	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R319	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R320	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R321	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R322	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R323	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R324	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R325	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R326	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R327	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R328	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R329	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R330	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R331	863-11154	RESISTOR, CHIP 33 1/16W 5



Critical safety components are identified by shading. Replace only with part numbers specified.

# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
AB	R332	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R333	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R334	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R335	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R336	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R337	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R338	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R339	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R340	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R341	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R342	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R343	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R344	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R345	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R346	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R350	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R351	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R352	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R353	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R354	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R355	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R356	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R357	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R358	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R359	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R360	863-11156	RESISTOR, CHIP 100 1/16W 5
B	R361	863-11156	RESISTOR, CHIP 100 1/16W 5
A	R361	863-11428	RESISTOR, CHIP 560 1/16W 5
AB	R362	863-11163	RESISTOR, CHIP 15K 1/16W 5
AB	R363	863-11202	RESISTOR, CHIP 3.3K 1/16W 5
B	R364	863-11171	RESISTOR, CHIP 330 1/16W 5
A	R364	863-11180	RESISTOR, CHIP 820 1/16W 5
AB	R365	863-11163	RESISTOR, CHIP 15K 1/16W 5
AB	R366	863-11202	RESISTOR, CHIP 3.3K 1/16W 5
B	R367	863-11171	RESISTOR, CHIP 330 1/16W 5
A	R367	863-11180	RESISTOR, CHIP 820 1/16W 5
AB	R368	863-11163	RESISTOR, CHIP 15K 1/16W 5
AB	R369	863-11202	RESISTOR, CHIP 3.3K 1/16W 5
B	R370	863-11171	RESISTOR, CHIP 330 1/16W 5
B	R371	863-11163	RESISTOR, CHIP 15K 1/16W 5
B	R372	863-11202	RESISTOR, CHIP 3.3K 1/16W 5
B	R373	863-11171	RESISTOR, CHIP 330 1/16W 5
B	R374	863-11163	RESISTOR, CHIP 15K 1/16W 5
B	R375	863-11202	RESISTOR, CHIP 3.3K 1/16W 5
B	R376	863-11171	RESISTOR, CHIP 330 1/16W 5
B	R377	863-11163	RESISTOR, CHIP 15K 1/16W 5
B	R378	863-11202	RESISTOR, CHIP 3.3K 1/16W 5
B	R379	863-11155	RESISTOR, CHIP 75 1/16W 5
B	R380	863-11155	RESISTOR, CHIP 75 1/16W 5
B	R381	863-11155	RESISTOR, CHIP 75 1/16W 5
B	R382	863-11157	RESISTOR, CHIP 1K 1/16W 5
B	R383	863-11157	RESISTOR, CHIP 1K 1/16W 5
B	R384	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
B	R385	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R390	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R391	863-11156	RESISTOR, CHIP 100 1/16W 5

RC	REF	PART#	DESCRIPTION
AB	R392	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R393	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R394	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R395	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R396	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R397	863-11156	RESISTOR, CHIP 100 1/16W 5
B	R3A1	863-11150	RESISTOR CHIP 0 1/16W 5
B	R3A2	863-11150	RESISTOR CHIP 0 1/16W 5
A	R3B1	863-11150	RESISTOR CHIP 0 1/16W 5
A	R3B2	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R3C1	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R401	863-11154	RESISTOR, CHIP 33 1/16W 5
AB	R402	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R403	863-11172	RESISTOR, CHIP 470 1/16W 5
AB	R404	863-11172	RESISTOR, CHIP 470 1/16W 5
AB	R405	863-11172	RESISTOR, CHIP 470 1/16W 5
AB	R406	863-11172	RESISTOR, CHIP 470 1/16W 5
AB	R407	863-11178	RESISTOR, CHIP 6.8K 1/16W 5
AB	R408	863-11167	RESISTOR, CHIP 2.2K 1/16W 5
AB	R409	863-11179	RESISTOR, CHIP 7.5K 1/16W 5
AB	R411	863-11179	RESISTOR, CHIP 7.5K 1/16W 5
AB	R412	863-11178	RESISTOR, CHIP 6.8K 1/16W 5
AB	R413	863-11163	RESISTOR, CHIP 15K 1/16W 5
AB	R414	863-11175	RESISTOR, CHIP 5.6K 1/16W 5
AB	R415	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R416	863-11163	RESISTOR, CHIP 15K 1/16W 5
AB	R417	863-11178	RESISTOR, CHIP 6.8K 1/16W 5
AB	R418	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R419	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R420	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R425	863-11171	RESISTOR, CHIP 330 1/16W 5
AB	R426	863-11166	RESISTOR CHIP 220 1/16W 5
AB	R427	863-11171	RESISTOR, CHIP 330 1/16W 5
AB	R428	863-11166	RESISTOR CHIP 220 1/16W 5
AB	R429	863-11160	RESISTOR, CHIP 110 OHM 1/16W
AB	R437	863-11167	RESISTOR, CHIP 2.2K 1/16W 5
AB	R438	863-11179	RESISTOR, CHIP 7.5K 1/16W 5
AB	R439	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R501	863-11150	RESISTOR, CHIP 0 1/16W 5
AB	R503	863-11174	RESISTOR, 47K 1/16W
AB	R504	863-11205	RESISTOR, CHIP 680 1/16W 5
AB	R506	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R510	863-11171	RESISTOR, CHIP 330 1/16W 5
AB	R511	863-11171	RESISTOR, CHIP 330 1/16W 5
AB	R512	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R513	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R514	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R517	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R518	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R519	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R524	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R525	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R535	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R536	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R537	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R546	863-11156	RESISTOR, CHIP 100 1/16W 5



Critical safety components are identified by shading. Replace only with part numbers specified.

# COMPONENT PARTS LIST

## (A) DVC2200 (B) DVC2250

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
AB	R547	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R548	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R549	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R550	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R551	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R552	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R553	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R554	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R555	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R557	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R558	863-11156	RESISTOR, CHIP 100 1/16W 5
AB	R559	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R560	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R562	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R564	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R565	863-11174	RESISTOR, 47K 1/16W
AB	R567	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R569	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R570	863-11158	RESISTOR, CHIP 10K 1/16W 5
AB	R571	863-11174	RESISTOR, 47K 1/16W
AB	R573	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R574	863-11173	RESISTOR, CHIP 4.7K 1/16W 5
AB	R575	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R576	863-11174	RESISTOR, 47K 1/16W
AB	R577	863-11174	RESISTOR, 47K 1/16W
AB	R581	863-11157	RESISTOR, CHIP 1K 1/16W 5
AB	R582	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R583	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R584	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R587	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R588	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R589	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R593	863-11161	RESISTOR, CHIP 1.2K 1/16W 5
AB	R597	863-11150	RESISTOR CHIP 0 1/16W 5
A	R598	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
B	R598	863-11150	RESISTOR CHIP 0 1/16W 5
AB	R5A1	863-07330	RESISTOR, CHIP 0 1/10W
AB	R5A2	863-07330	RESISTOR, CHIP 0 1/10W
AB	R5A3	863-07330	RESISTOR, CHIP 0 1/10W
AB	R5A4	863-07330	RESISTOR, CHIP 0 1/10W
AB	R5A5	863-07330	RESISTOR, CHIP 0 1/10W
AB	R5A6	863-07330	RESISTOR, CHIP 0 1/10W
AB	R5A7	863-07330	RESISTOR, CHIP 0 1/10W
AB	R602	863-06692	RESISTOR, FIXED CARBON FILM 75 1/6W 5
AB	R603	863-06692	RESISTOR, FIXED CARBON FILM 75 1/6W 5
AB	R604	863-06692	RESISTOR, FIXED CARBON FILM 75 1/6W 5
AB	R605	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R606	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R607	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R608	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R609	863-06627	RESISTOR, FIXED CARBON FILM 1K 1/6W
AB	R618	863-06666	RESISTOR, FIXED CARBON FILM 100 1/6W
AB	R619	863-06666	RESISTOR, FIXED CARBON FILM 100 1/6W
AB	R620	863-06641	RESISTOR, FIXED CARBON FILM 220 1/6W 5
AB	R621	863-06641	RESISTOR, FIXED CARBON FILM 220 1/6W 5
B	R622	863-06731	RESISTOR FIXED CARBON FILM 2222 1/6W 5

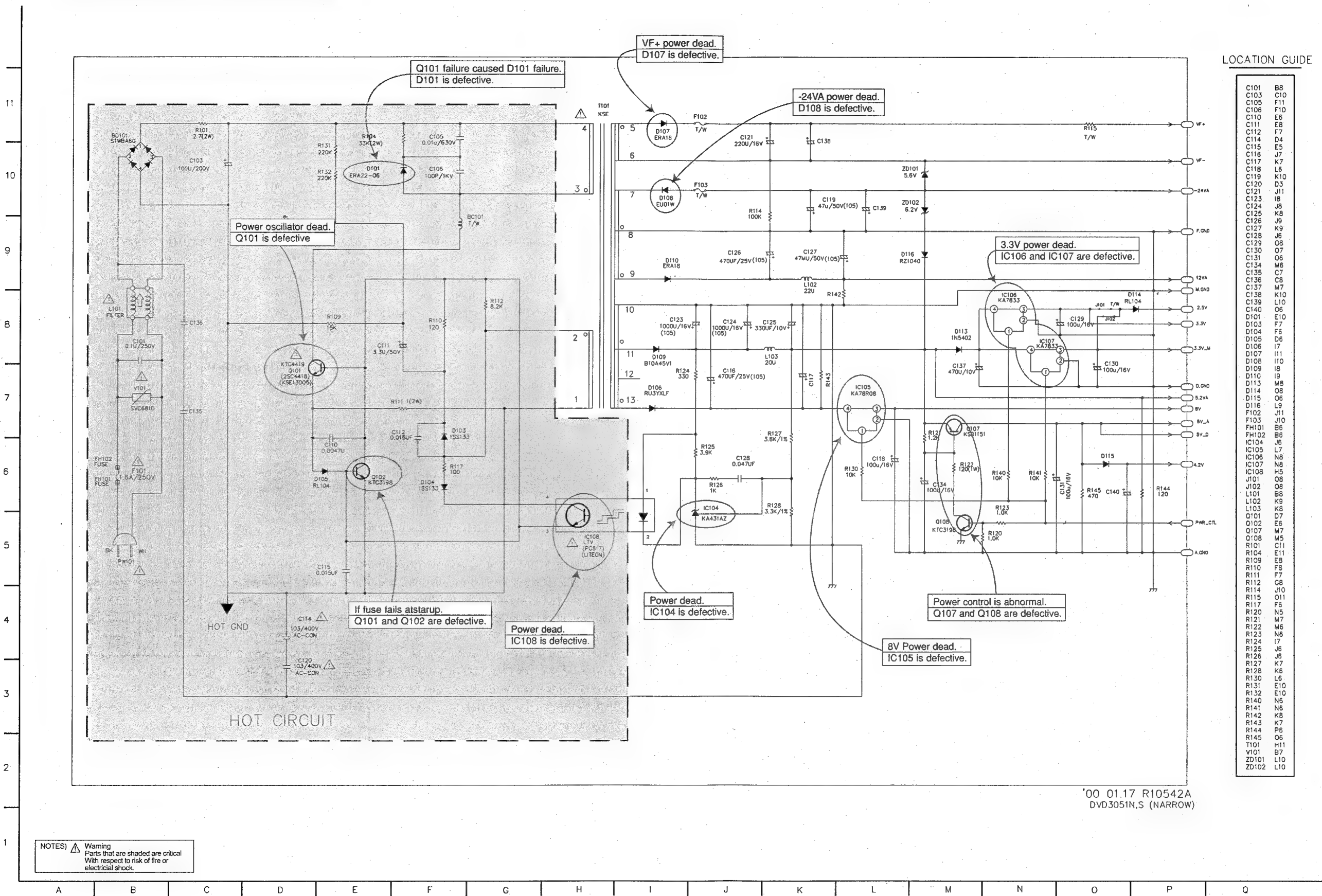
RC	REF	PART#	DESCRIPTION
B	R6M1	863-06641	RESISTOR, FIXED CARBON FILM 220 1/6W 5
B	R6M2	863-06641	RESISTOR, FIXED CARBON FILM 220 1/6W 5
B	R6M3	863-06666	RESISTOR, FIXED CARBON FILM 100 1/6W
B	R6M4	863-06666	RESISTOR, FIXED CARBON FILM 100 1/6W
AB	R901	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R902	863-06670	RESISTOR, FIXED CARBON FILM 3.3 1/6W 5
AB	R903	863-06636	RESISTOR, FIXED CARBON FILM 470 1/6W 5
AB	R904	863-06660	RESISTOR, FIXED CARBON FILM 1.2K 1/6W 5
AB	R905	863-06650	RESISTOR, FIXED CARBON FILM 1.5K 1/6W 5
AB	R906	863-06670	RESISTOR, FIXED CARBON FILM 3.3 1/6W 5
AB	R907	863-06635	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
AB	R908	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R909	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R910	863-06638	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
AB	R912	863-07004	FIXED CARBON FILM 820 1/6W 5
AB	R913	863-06663	RESISTOR, FIXED CARBON FILM 330 1/6W 5
AB	R914	863-06641	RESISTOR, FIXED CARBON FILM 220 1/6W 5
AB	R915	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R916	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R917	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R918	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R919	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R921	863-06638	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
AB	R922	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R928	863-06641	RESISTOR, FIXED CARBON FILM 220 1/6W 5
AB	R931	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	R941	863-06639	RESISTOR, FIXED CARBON FILM 2.2K 1/6W 5
AB	R945	863-06644	RESISTOR, FIXED CARBON FILM 10K 1/6W
AB	RC901	942-10063	REMOTE CONTROLLER RE TSOP283WE1 TEMIC 19
AB	SW901	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW902	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW903	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW904	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW905	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW906	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW907	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW908	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	SW909	885-10078	SWITCH,TACT SKQUAA J-ALPS NON 12V 5
AB	SW910	885-10071	SWITCH,TACT SKHV10910B LG C&D NO
AB	T101	895-10105	TRANSFORMER,SMPS KSE-021G KWANG SUNG
AB	V101	903-10326	VARIATOR SVC681D-10A SAMHWA
AB	X301	903-10449	CRYSTAL,SMD HC-49/SM5H KONY CHIP
AB	X501	903-10450	RESONATOR,CERAMIC CSTCV20.00MXJ040-TC20 M
AB	X901	905-10393	FILTER CERAMIC CSA6.00MGU MUR
AB	ZD101	903-10004	DIODE, ZENER MTZ5.6B TP-ROHM-KP-H310M 1UG1, GVP-C200
AB	ZD102	903-10448	DIODE, ZENER MTZJ6.2B TP ROHM-K D034



Critical safety components are identified by shading. Replace only with part numbers specified.

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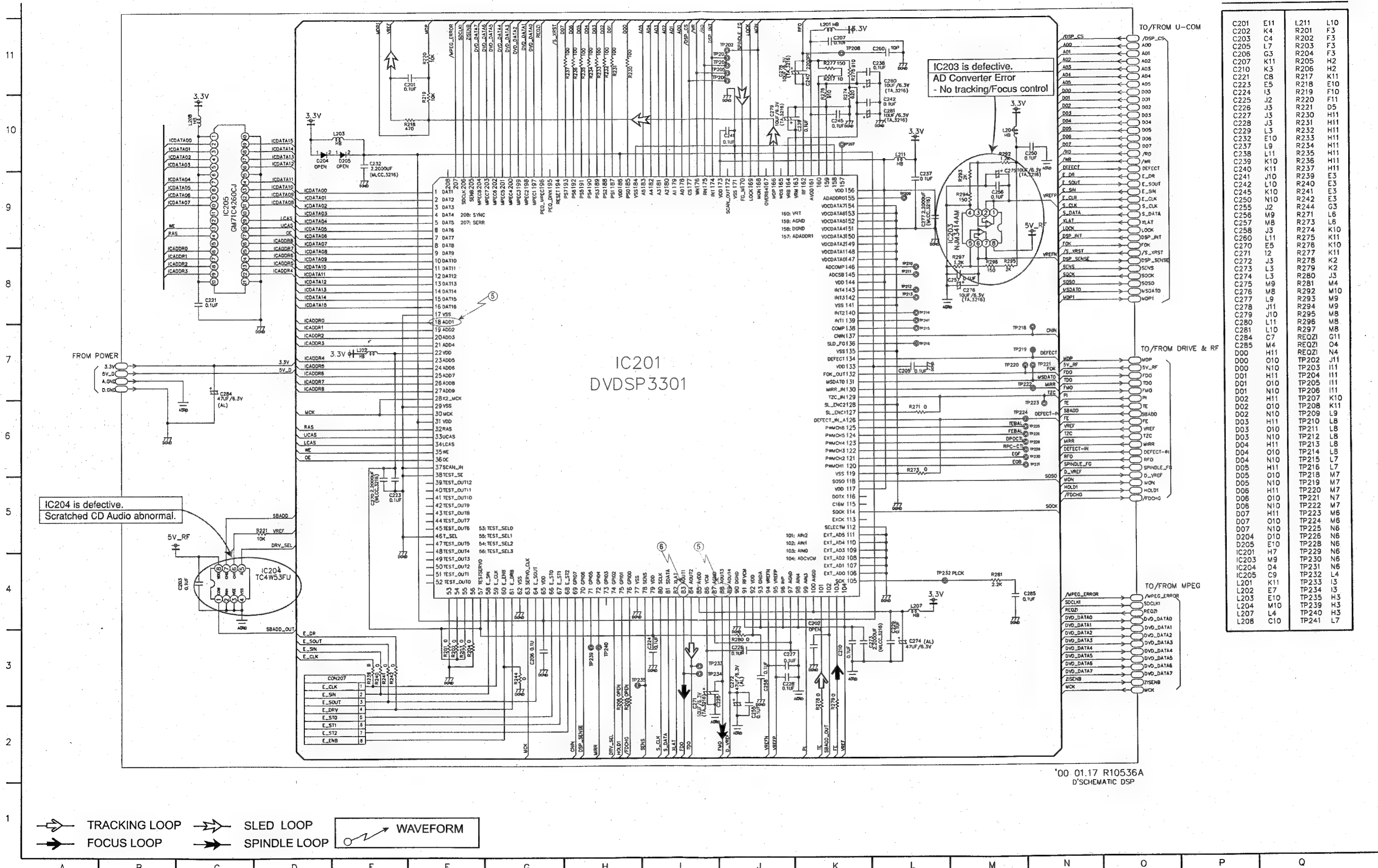
CIRCUIT DIAGRAM  
1. POWER(SMPS) CIRCUIT DIAGRAM



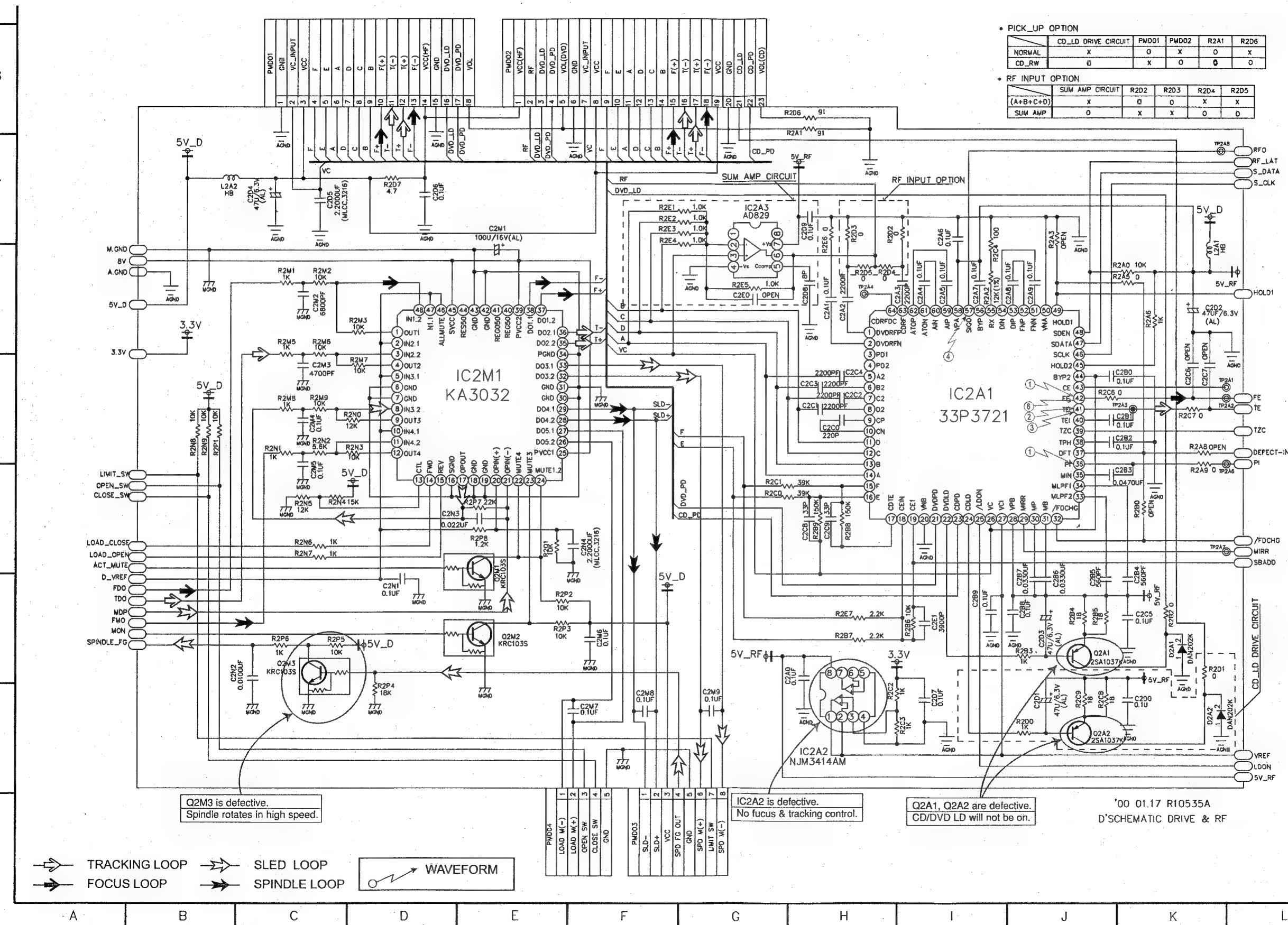


## 2. DVD DSP CIRCUIT DIAGRAM

## LOCATION GUIDE



3. DRIVE & RF CIRCUIT DIAGRAM



LOCATION GUIDE

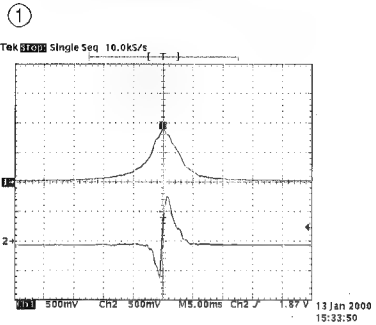
C2A1	H6	R2A9	K4
C2A2	H6	R2B0	K4
C2A3	I6	R2B2	K3
C2A4	I6	R2B3	J3
C2A5	I6	R2B4	J3
C2A6	I6	R2B5	J3
C2A7	I6	R2B6	I3
C2A8	J6	R2B7	H3
C2A9	J6	R2B8	H4
C2B0	J5	R2B9	H4
C2B1	K5	R2C0	G4
C2B2	J5	R2C1	G4
C2B3	K4	R2C2	H2
C2B4	J3	R2C3	I2
C2B5	J3	R2C4	I6
C2B6	J3	R2C6	J5
C2B7	J3	R2C7	K5
C2B8	J3	R2C8	J2
C2B9	I3	R2C9	J2
C2C0	H5	R2D0	J2
C2C1	H5	R2D1	K3
C2C2	H5	R2D2	H7
C2C3	H5	R2D3	H7
C2C4	H5	R2D4	H6
C2C5	K3	R2D5	H6
C2C6	K5	R2D6	G8
C2C7	K5	R2D7	D7
C2C8	H4	R2E1	F7
C2C9	H4	R2E2	F7
C2D0	K2	R2E3	F7
C2D1	J2	R2E4	F7
C2D2	K6	R2E5	G6
C2D3	J3	R2E6	H6
C2D4	C7	R2E7	H3
C2D5	C7	R2M1	C6
C2D6	D7	R2M2	C6
C2D7	I2	R2M3	D6
C2D8	H6	R2M5	C6
C2D9	H7	R2M6	C6
C2E0	G6	R2M7	D5
C2E1	I3	R2M8	C5
C2M1	E7	R2M9	C5
C2M2	C6	R2N0	C5
C2M3	C5	R2N1	C5
C2M4	C5	R2N2	C5
C2M5	C4	R2N3	C5
C2M6	F3	R2N4	C4
C2M7	F2	R2N5	C4
C2M8	F2	R2N6	C4
C2M9	G2	R2N7	C4
C2N1	D3	R2N8	B5
C2N2	B3	R2N9	B5
C2N3	D4	R2P1	B5
C2N4	F4	R2P2	E3
D2A1	K4	R2P3	E3
D2A2	K2	R2P4	D2
Q2A1	J3	R2P5	C3
Q2A2	J2	R2P6	C3
Q2M1	E3	R2P7	E4
Q2M2	E3	R2P8	E4
Q2M3	C3	R2O1	E4
R2A0	J6	TP2A1	K5
R2A1	G7	TP2A2	K5
R2A2	I6	TP2A3	J5
R2A3	J6	TP2A4	H6
R2A5	J6	TP2A6	K4
R2A6	K6	TP2A7	K4
R2A8	K5	TP2A8	K7



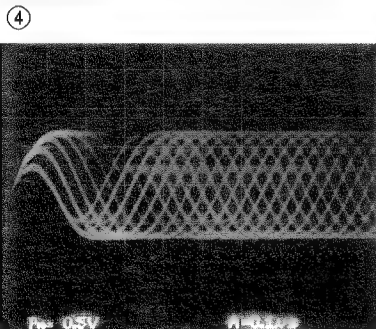
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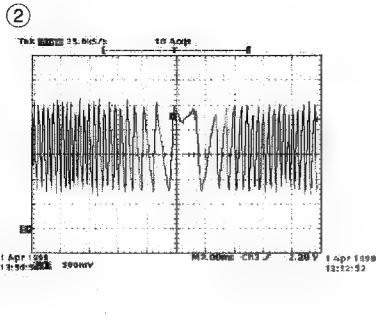
• WAVEFORMS  
(RF/SERVO)



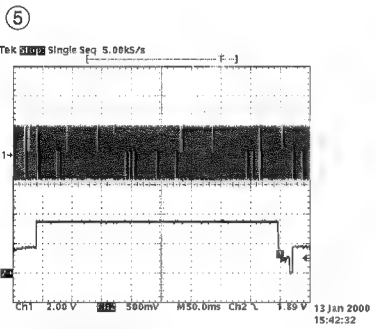
IC2A1 Pin 42, Focus Error  
IC2A1 Pin 36, Pi



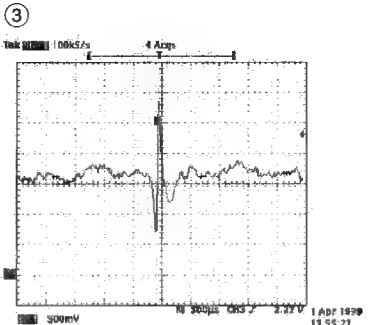
IC2A1 Pin 57,  
RF



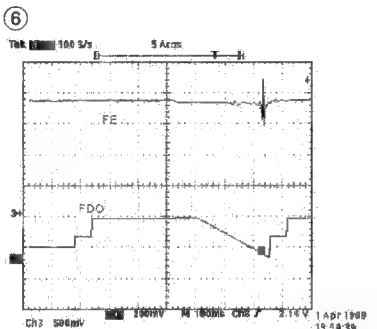
IC2A1 Pin 41  
Tracking Error



IC201 Pin 88, SLED Drive(FMO)  
IC201 Pin 18, SLED FG

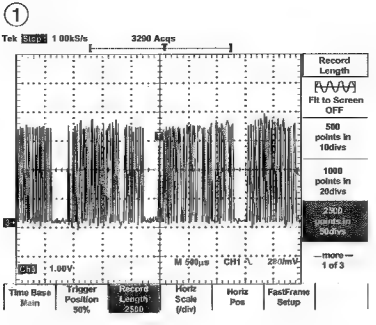


IC2A1 Pin 41  
VBR TRACKING Error

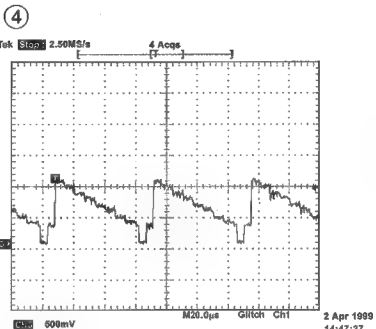


IC2A1 Pin42, Focus Error(in Focus Search)  
IC201 Pin 83, Focus Drive(FDO)

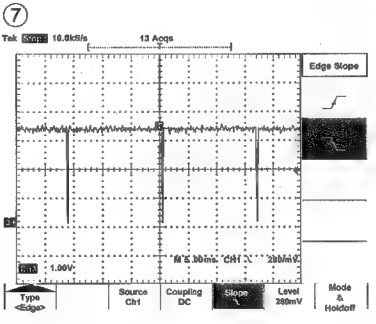
(VIDEO ENCODER)



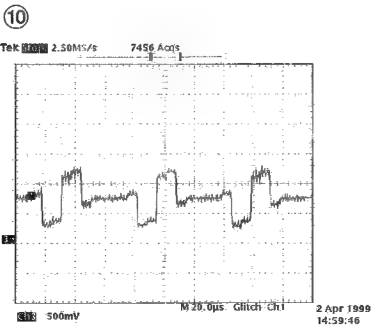
IC305 Pins 9~16, MPEG Data



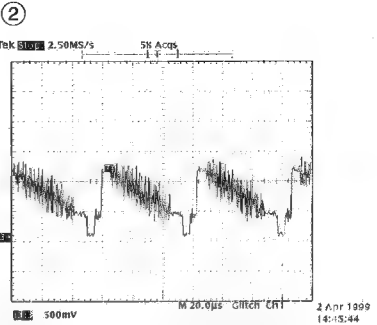
IC305 Pin 27, Luminance



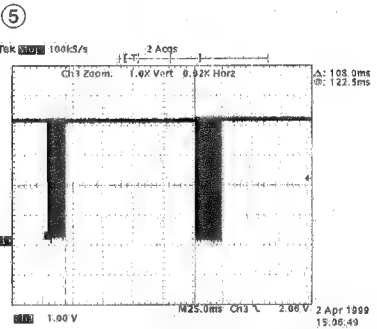
IC305 Pin 7, Vertical SYNC



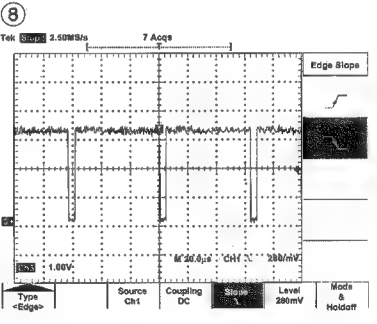
IC305 Pin 23 Component Pr



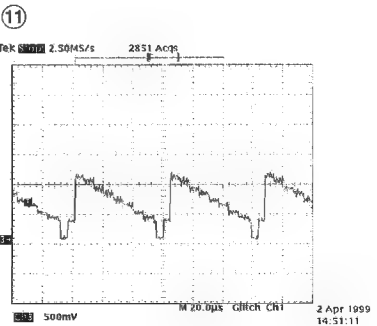
IC305 Pin 30, Composite



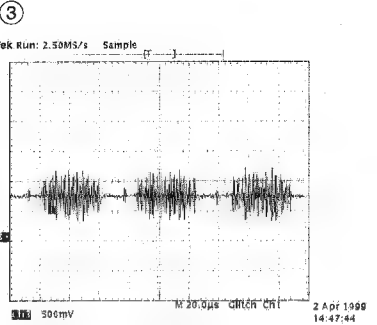
IC305 Pins 40, 41 SDA/SCL



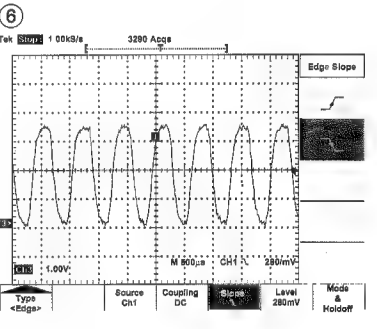
IC305 Pin 8 Horizontal SYNC



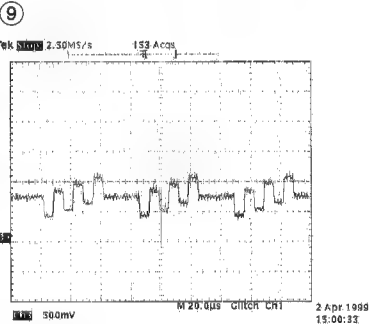
IC305 Pin 27 Component Y



IC305 Pin 24, Chrominance



IC305 Pin 4, MPEG Clock(27MHz)



IC305 Pin 29 Component Pb

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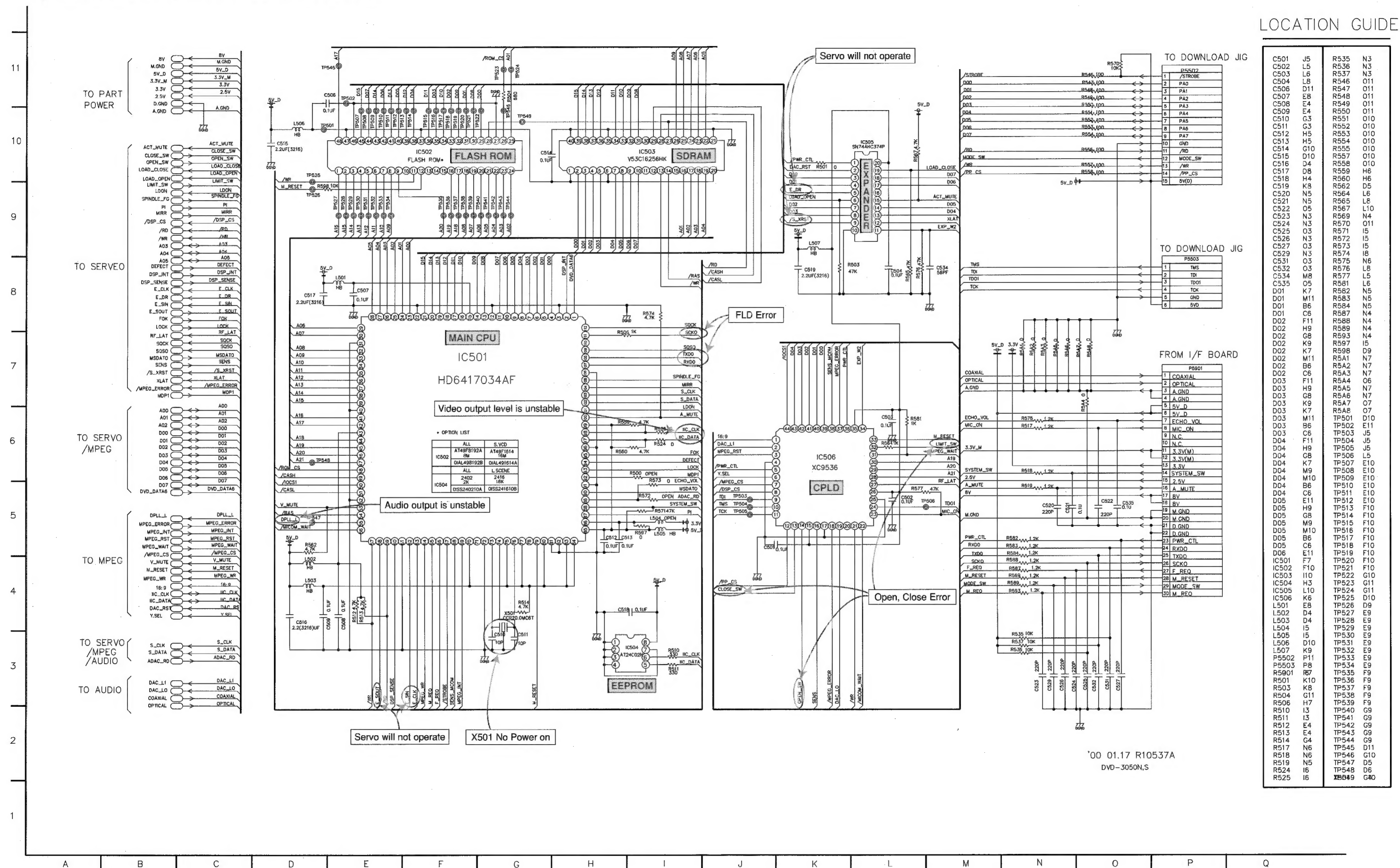
- 1

C401	C9	Q401	C10
C402	D9	Q404	04
C403	E10	R402	C10
C404	E9	R403	C9
C405	B10	R404	C9
C406	F10	R405	C9
C407	G10	R406	C9
C408	F9	R407	D10
C409	F10	R408	D11
C410	G9	R409	G10
C411	H9	R411	G9
C412	H9	R412	H9
C413	I9	R413	H9
C415	H9	R414	H10
C416	H10	R415	G10
C417	I10	R416	H10
C418	K10	R417	H10
C419	K10	R418	H10
C420	K9	R419	J10
C421	K9	R420	J9
C422	N5	R425	N5
C423	P4	R426	N4
C424	N3	R427	04
C427	H11	R428	N3
C428	H11	R429	N3
C429	H11	R437	G11
C430	I11	R438	G11
C450	B6	R439	F11
C451	C6	R450	F10
C452	E7	R451	C4
C453	F6	R452	C4
C454	D4	R453	C4
C455	G8	R454	C4
C456	H7	R455	C3
C457	H7	R456	C3
C458	I8	R457	G8
C459	K8	R458	H8
C480	K8	R459	G7
C481	G7	R460	H8
C482	H7	R461	H8
C483	H7	R462	H8
C484	I7	R463	J8
C485	K7	R465	K8
C486	K7	R466	L8
C487	G6	R467	G7
C488	H5	R468	H7
C489	H5	R469	H6
C470	I6	R470	J7
C471	K6	R472	L7
C472	K6	R473	L7
C473	G5	R474	G6
C474	H4	R475	H6
C475	H4	R476	G5
C476	I4	R477	H6
C478	K5	R478	H5
C479	K5	R479	H6
C480	G3	R480	J6
C481	H3	R482	L6
C482	H3	R483	L6
C483	I4	R484	G5
C484	K4	R485	H5
C485	K4	R486	H4
C486	G2	R487	J5
C487	H2	R489	L5
C488	H2	R490	L5
C490	K2	R491	G4
C491	K2	R492	H4
C492	I2	R493	G3
C4M1	06	R494	H4
C4M2	05	R495	H4
C4M3	06	R496	H4
C4M4	06	R497	J4
IC401	D9	R499	L4
IC402	I9	R4A1	L4
IC403	N5	R4A2	G3
IC404	G12	R4A3	H3
IC451	D6	R4A4	H2
IC452	I7	R4A5	H3
IC453	I5	R4A8	L3
IC454	I3	R4A9	L2
IC4M1	N6	R4M1	N6
IC4M1	H11	R4M2	N6
L402	C10	R4M3	N6
L451	C5	R4M4	N5
L452	C7	R4M5	06
L4M1	06	R4M6	05



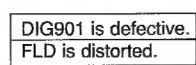
# 6. $\mu$ -COM/EXPANDER CIRCUIT DIAGRAM

## LOCATION GUIDE



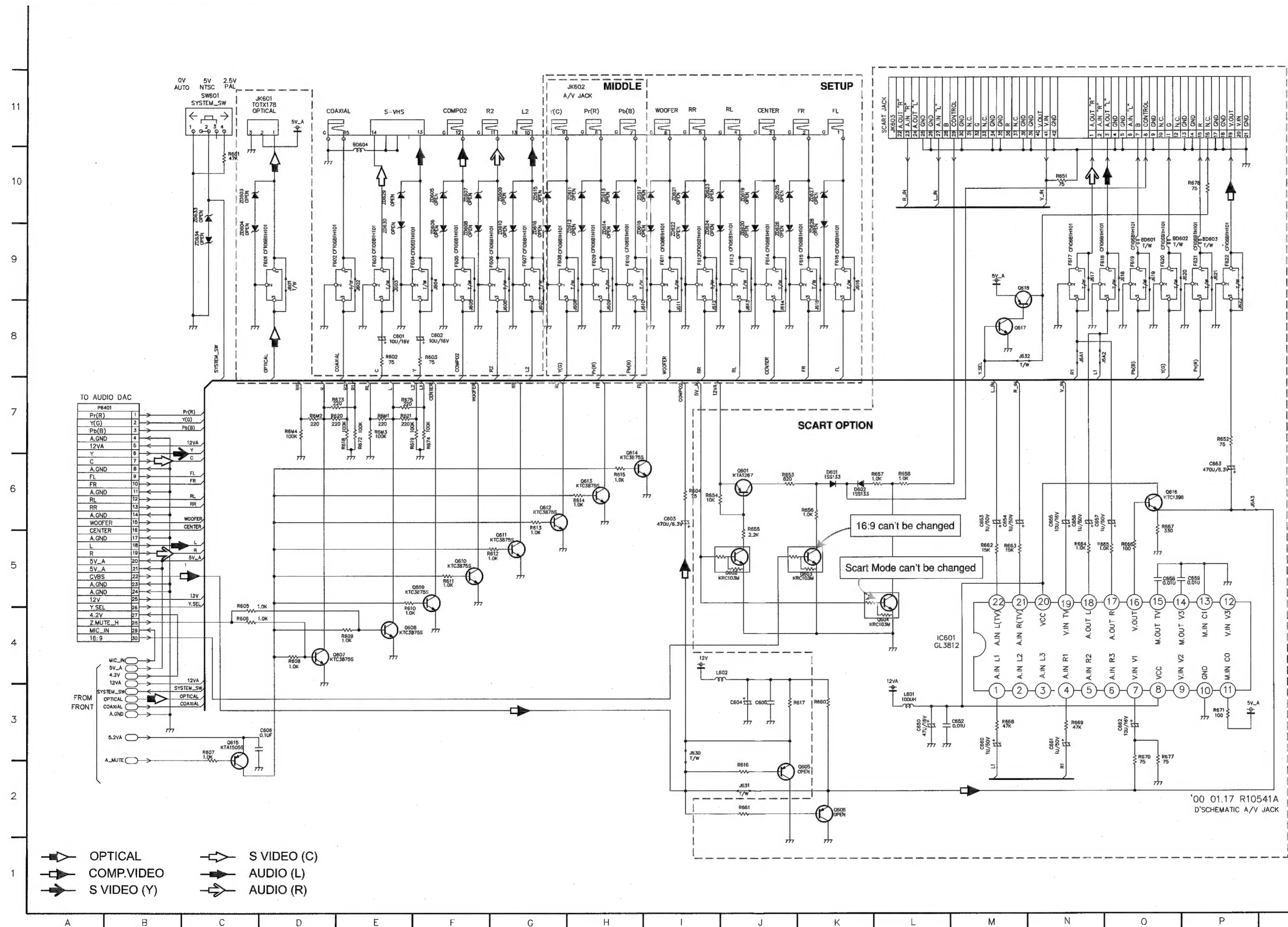


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C801	G5	R813	H3
C802	G4	R814	F2
C803	G4	R816	H3
C804	H4	R817	I3
C805	I4	R818	J3
C806	I4	R819	G3
C807	I4	R821	L2
C810	I3	R822	F5
C811	J3	R826	K4
C812	J2	R827	K3
C813	J4	R828	J3
C814	K3	R901	I10
C815	J4	R902	H8
C816	K3	R903	C11
C817	J2	R904	C11
C818	J4	R905	C11
C821	L1	R906	B11
C822	I3	R907	B11
C823	H3	R908	I10
C824	G3	R909	I10
C901	H7	R910	I10
C902	H7	R912	C11
C903	I8	R913	I7
C904	I8	R914	G11
C905	I7	R915	F10
C906	L6	R916	H10
C907	L7	R917	I10
C908	I7	R918	I10
C909	N6	R919	I10
C910	N6	R920	H10
C912	I6	R921	N8
C913	I8	R922	M9
D.GND	O4	R923	H10
D.GND	N4	R924	H10
D.GND	C4	R925	H8
D901	L9	R926	H8
D902	L8	R927	H8
D903	L8	R928	I8
D904	L8	R929	J10
D905	M8	R930	K10
D906	M8	R931	I7
D907	M8	R940	GB
D908	M8	R941	B11
D909	F11	R942	I6
DIG901	F11	R943	J6
IC801	G5	R944	I6
IC802	J3	R945	H10
IC901	J8	RC901	H6
IC902	H8	SW901	E10
J801	F5	SW902	C10
J802	F3	SW903	C10
J803	I2	SW904	C10
J804	K2	SW905	B10
JS901	A9	SW906	B10
L802	J4	SW907	B10
L902	L5	SW908	A10
LED901	D10	SW909	B9
P801	B6	SW910	C9
P9001	E10	SW911	C9
P9902	F10	SW912	C9
P9903	E9	SW913	C9
P9904	F9	SW914	C9
Q901	G11	W9101	H3
Q902	H11	VR802	H3
R801	G4	VR803	K2
R802	G5	X901	I8
R803	G4	ZD801	F4
R804	G4	ZD802	F4
R805	G4	ZD803	F3
R806	H4	ZD804	F2
R807	I4	ZD805	I2
R809	I4	ZD806	I1
R811	I4	ZD901	J10

# 8. JACK CIRCUIT DIAGRAM



## LOCATION GUIDE

BD601	09	Q610	F5
BD602	09	Q611	G8
BD603	P9	Q612	G8
BD604	E11	Q613	H6
C601	E8	Q614	H6
C602	F8	Q615	C3
C603	I6	Q616	O6
C604	J3	Q617	M8
C605	J3	Q618	M9
C606	D3	R601	C10
C607	L3	R602	E8
C608	M3	R603	F8
C609	M6	R604	I6
C610	M6	R605	C4
C611	N6	R606	C4
C612	N6	R607	C3
C613	N6	R608	D4
C614	O5	R609	E4
C615	P5	R610	E4
C616	M3	R611	F5
C617	N3	R612	F5
C618	O3	R613	G6
C619	P6	R614	H6
D601	K6	R615	H6
D602	K6	R616	J2
F601	D9	R617	J3
F602	E9	R618	E7
F603	E9	R619	F7
F604	F9	R620	D7
F605	F9	R621	E7
F606	G9	R622	N10
F607	G9	R623	P7
F608	G9	R624	J6
F609	H9	R625	I6
F610	H9	R626	J5
F611	I9	R627	K6
F612	I9	R628	K6
F613	J9	R629	L6
F614	J9	R630	K3
F615	K9	R631	J2
F616	K9	R632	M5
F617	N9	R633	M5
F618	O9	R634	N5
F619	O9	R635	N5
F620	O9	R636	O5
F621	P9	R637	O6
F622	P9	R638	M3
IC601	L4	R639	N3
J601	D9	R640	O3
J602	E9	R641	P3
J603	E9	R642	E7
J604	F9	R643	D7
J605	F8	R644	F7
J606	G8	R645	E7
J607	G8	R646	P10
J608	H8	R647	O3
J609	H8	R648	E7
J610	I8	R649	D7
J611	I8	R650	E7
J612	I8	R651	D7
J613	J8	ZD603	C10
J614	J8	ZD604	C9
J615	K8	ZD605	F10
J616	K9	ZD606	F9
J617	N9	ZD607	F10
J618	O9	ZD608	F9
J619	O9	ZD609	G10
J620	P9	ZD610	G9
J621	P9	ZD611	H10
J622	P8	ZD612	H9
J630	I3	ZD613	H10
J631	J2	ZD614	H9
J632	M8	ZD615	G10
J6A1	N8	ZD616	G9
J6A2	O8	ZD617	H10
J6A3	P6	ZD618	H9
JK601	C11	ZD619	J10
JK602	H11	ZD620	J9
JK603	L11	ZD621	I10
L601	L3	ZD622	I9
L602	I4	ZD623	I10
Q601	J6	ZD624	I9
Q602	J5	ZD625	J10
Q603	K5	ZD626	J10
Q604	L4	ZD627	K9
Q605	K2	ZD628	K9
Q606	K2	ZD629	E10
Q607	D4	ZD630	E9
Q608	E4	ZD631	C10
Q609	F5	ZD632	C9